



SOLVENT RECOVERY SYSTEMS

Professional - Industrial - Ergonomic

DiQ 30 LCD

DiQ 60 LCD

DiQ 120 LCD

Series Standard - DYnamic

Series designed for the recycling of solvents with solid process residues. **The cycle is fully automatic.** The operator's intervention is limited to loading the solvent, if done manually, setting the temperature, selecting the distillation cycle duration, and discharging the residues. An internal **rotor with scraping blades** in the boiler not only allows optimal stripping of the solvent being processed but also simplifies the discharge of contaminants by preventing them from adhering to the walls, ultimately producing a granular, powdered residue.

Model DiQ 30 Ax LCD

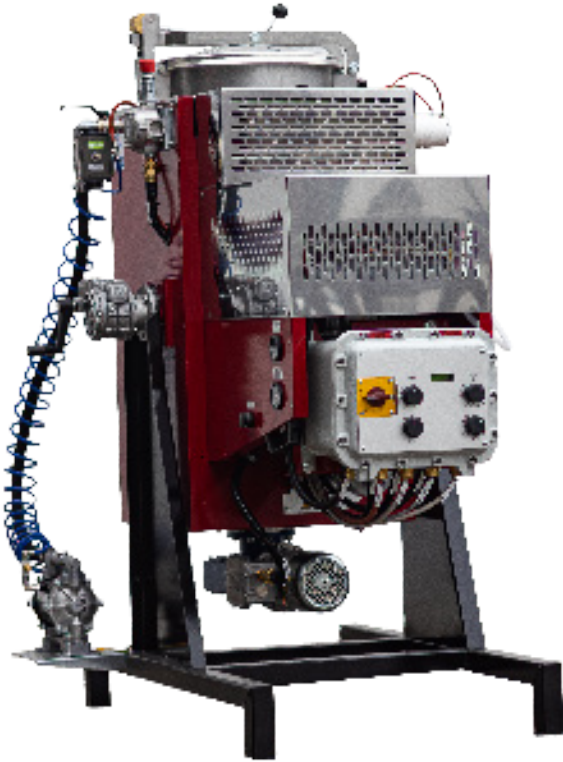
- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 30 liters
- **Total volume of the boiler:** 43 liters
- **Internal diameter of the boiler:** 320 mm
- **Processing time:** 4,00 - 5,30 hours
- **Working temperature:** 50 - 180 °C
- **Operating:** atmospheric pressure
- **Voltage:** 230 V - 50 Hz
- **Electrical supply:** three-phase + earth
- **Connected power:** 1980 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard, acetone, universal
- **Dimensions:** cm 60 x 105 x 116 H
- **Weight:** 176 kg
- **Packing list for shipment:** Cardboard on pallet
- **Dimensions:** cm 74 x 113 x 143H - Kg. 189



Plant in tilting position.

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Internal shaft with scraping blades for dry residue unloading.

Model DiQ 60 Ax LCD

- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 60 liters
- **Total volume of the boiler:** 103 liters
- **Internal diameter of the boiler:** 400 mm
- **Processing time:** 4,00 - 5,30 hours
- **Working temperature:** 50 - 180 °C
- **Operating:** atmospheric pressure
- **Voltage:** 400 V - 50 Hz
- **Electrical supply:** three-phase + earth
- **Connected power:** 4200 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard, acetone, universal
- **Dimensions:** cm 110 x 75 x 165 H
- **Weight:** 260 kg
- **Packing list for shipment:** Cardboard on pallet
- **Dimensions:** cm 118 x 153 x 197H - Kg. 322

Series Standard - DYnamic

Model DiQ 120 Ax LCD

- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 120 liters
- **Total volume of the boiler:** 210 liters
- **Internal diameter of the boiler:** 500 mm
- **Processing time:** 4,00 - 5,30 hours
- **Working temperature:** 50 - 180 °C
- **Operating:** atmospheric pressure
- **Voltage:** 400 V - 50 Hz
- **Electrical supply:** three-phase + earth
- **Connected power:** 7500 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard, universal
- **Dimensions:** cm 130 x 91 x 200 H
- **Weight:** 402 kg
- **Packing list for shipment:** Cardboard on pallet
- **Dimensions:** cm 175 x 135 x 217H - Kg. 553



Plant equipped with automatic sending of distillate.



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Internal Scraper

Distiller 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 agitation of the product during processing ensures complete separation between the solvent and the contaminant. Maximum efficiency of the distillation process, up to the discharge of a granular residue.



Optional

Easy loading of contaminated solvent by a push button, with level control.

Loading by pneumatic diaphragm pump or by exploiting vacuum (for systems equipped with a vacuum unit).

Operating principle

The DYnamic series plants are distillers designed for the recovery and reuse of contaminated solvent from washing and degreasing operations. Utilizing the principle of simple distillation, they separate contaminants (resins, polymers, pigments, paints, oils, etc.) from the original solvent. The boiling of the polluted solvent takes place inside a boiler, which is integrated with a jacket containing thermal oil, heated by one or more electric resistances. The vapors produced are directed to an air- or water-cooled condenser. The condensed solvent is collected directly in a container suitable for reuse. The contaminant settles at the bottom of the boiler, which is continuously agitated by an internal scraper to ensure maximum extraction of the remaining solvent, resulting in a granular, powdered residue. The discharge of the powdered residue is carried out by gravity, simply by tilting the boiler.

The properties of the treated solvent are not altered by the process, which can be repeated indefinitely.

*All Formeco units can be equipped with a **Vacuum Group**, suitable for solvents with a high boiling point or for flammable solvents with a boiling point close to the auto-ignition temperature.*



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Legend

Di = Explosion-proof

Distillers with explosion-proof electrical protection for the treatment of flammable and non-flammable solvents, suitable for operation in high-risk areas.

Q = DYnamic

Distiller with 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.

30-60-120 = Loading capacity

Effective boiler load capacity (liters)

Ax = Air cooler condensed

Condensation unit with stainless steel AISI 304/316 battery, air-cooled with fan.

LCD = Liquid crystal display

LCD panel for setting the process time.



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