



SOLVENT RECOVERY SYSTEMS

Professional - Industrial - Ergonomic

DQ 250 Wx

DQ 400 Wx

DQ 600 Wx

DQ 1200 Wx

DQ 2200 Wx

Series Industrial - Dynamic

Model DQ 250 Wx

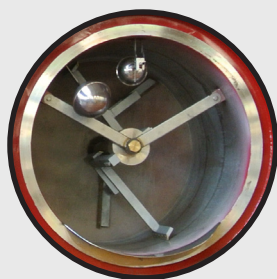
- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 250 liters
- **Total volume of the boiler:** 410 liters
- **Internal diameter of the boiler:** 700 mm
- **Processing time:** 4,00 - 5,30 hours
- **Working temperature:** 50 - 180 °C
- **Operating:** atmospheric pressure
- **Voltage:** 400 V - 50 Hz
- **Electrical supply:** three-phase + earth
- **Connected power:** 16000 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel water-cooled
- **Tilting boiler:** driven by gearbox
- **Microprocessor with display** for process parameter visualization, with the possibility to store parameters and adjust heating power
- **Automatic loading** for one or more consecutive cycles
- **Possibility to program a concentration** (drying) phase at the end of the distillation process.
- **Dimensions:** cm 160 x 306 x 220 H - 2150 kg



Professional Industrial Ergonomic

Series Industrial - Dynamic

Unit equipped with a microprocessor for setting and controlling process parameters.



Internal rotor with scraping blades for the discharge of powdered process residue.

Model DQ 400 Wx

- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 400 liters
- **Total volume of the boiler:** 624 liters
- **Internal diameter of the boiler:** 950 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:** 22000 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel water-cooled
- **Tilting boiler:** driven by gearbox
- **Microprocessor with display** for process parameter visualization, with the possibility to store parameters and adjust heating power
- **Automatic loading** for one or more consecutive cycles
- **Possibility to program a concentration** (drying) phase at the end of the distillation process.
- **Dimensions:** cm 180 x 306 x 240 H - 2350 kg

Professional Industrial Ergonomic

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Model DQ 600 Wx

- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 600 liters
- **Total volume of the boiler:** 965 liters
- **Internal diameter of the boiler:** 1000 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:** 22000 -32000 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel water-cooled
- **Tilting boiler:** driven by gearbox
- **Microprocessor with display** for process parameter visualization, with the possibility to store parameters and adjust heating power
- **Automatic loading** for one or more consecutive cycles
- **Possibility to program a concentration** (drying) phase at the end of the distillation process.
- **Dimensions:** cm 210 x 440 x 404 H - 3032 kg



Professional Industrial Ergonomic

Series Industrial - Dynamic



Model DQ 1200 Wx

- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 1200 liters
- **Total volume of the boiler:** 2200 liters
- **Internal diameter of the boiler:** 1450 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:** 33000-48000 W
- **Electrical protection:** II2G IIB T3 to T2
- **Vapour condenser:** stainless steel water-cooled
- **Tilting boiler:** driven by gear motor
- **Microprocessor with display** for process parameter visualization, with the possibility to store parameters and adjust heating power
- **Automatic loading** for one or more consecutive cycles
- **Dimensions:** cm 210 x 440 x 404 H
- **Weight:** 3532 kg

Professional Industrial Ergonomic

Series Industrial - Dynamic

Model DQ 2200 Wx

- **Explosion proof** version, ATEX approved
- **Flammable** solvents recycling
- **Loading capacity:** 2200 liters
- **Total volume of the boiler:** 3920 liters
- **Internal diameter of the boiler:** 1450 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:** 48000 W
- **Electrical protection:** II 2G IIB T3 to T2
- **Vapour condenser:** stainless steel water-cooled
- **Tilting boiler:** driven by gear motor
- **Microprocessor with display** for process parameter visualization, with the possibility to store parameters and adjust heating power
- **Automatic loading** for one or more consecutive cycles
- **Dimensions:** cm 210 x 440 x 404 H
- **Weight:** 3532 kg



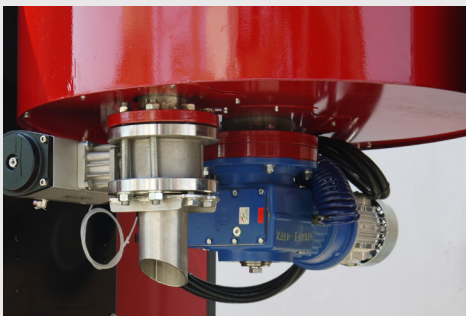
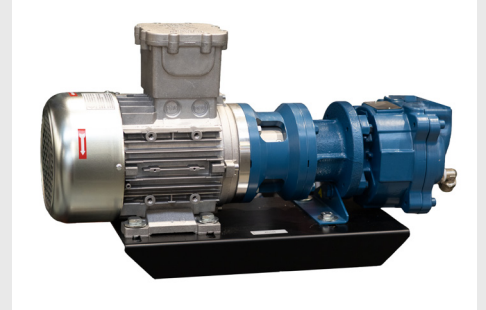
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Series Industrial - Dynamic

Optional

Vacuum unit equipped with liquid ring pump

including: Exhaust Gas Condenser, level control in the vacuum tank, and centrifugal extraction pump.



Automatic discharge of process residue

The systems can be equipped with a bottom discharge valve for residue removal, fitted with a drum presence sensor which, if the collection container is not in place, prevents the valve from opening. They can also be equipped with a level control device installed directly in the residue collection drum, which stops the discharge when the drum is full.

Nitrocellulose safety device

Extinguishing unit that detects the formation of fumes in the boiler and in the condensation duct, instantly activating a jet of water inside the boiler for a preset duration.



Operating principle

The Industrial series units are distillers that allow the recovery and reuse of contaminated solvent from washing and degreasing operations. By exploiting the principle of simple distillation, they separate contaminants (resins, polymers, pigments, paints, oils, etc.) from the original solvent. The boiling of the contaminated solvent takes place inside a boiler integrated with a jacket containing diathermic oil, heated by one or more electric heaters. The generated vapours are conveyed to an air- or water-cooled condenser. The contaminants settle on the bottom of the boiler, which is continuously agitated by an internal scraper that enables maximum extraction of the contained solvent, resulting in a granular or powdery residue. The residue is discharged by gravity by simply tilting the boiler. The characteristics 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.*

Series Industrial - Dynamic

Legend

D = Explosion-proof

Distiller with Ex (ATEX) explosion-proof electrical protection, for the treatment of flammable and non-flammable solvents, suitable for operation in high-risk areas (Zone 1).

Q = Dynamic

Distiller with a self-cleaning boiler equipped with an internal rotor with scraping blades that keep the product in constant motion, preventing adhesion to the walls and bottom of the boiler.

250-400-600-1200-2200 = Loading capacity

Effective boiler loading capacity (litres).

Wx = Water condenser

Stainless steel water-cooled condenser operating in an open circuit, with the possibility of connection to an external refrigeration unit (chiller) for closed-loop operation.



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