



FORMECO

WATER CONCENTRATION UNITS



Professional

Industrial

Ergonomic

Formeco s.r.l.
Via Cellini, 33
35027 Noventa Padovana
Padova – Italy – www.formeco.com

SERIES STANDARD “DISTATIC”

Model Ci 15 Ax LCD



- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 15 litres
- Total volume of the boiler: 19 litres
- Inner diameter of the boiler: 240 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 230 V - 50 Hz
- Electrical supply: single phase + earth
- 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: cm 55 x 65 x 165 H
- Weight: 67 kg
- Packing list for shipment: Cardboard
- Cm 70 x 63 x 117H - Kg. 74

Model Ci 30 Ax LCD

- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 30 litres
- Total volume of the boiler: 40 litres
- Inner diameter of the boiler: 320 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 230 V - 50 Hz
- Electrical supply: single phase + earth
- 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: cm 60 x 99 x 116 H
- Weight: 110 kg
- Packing list for shipment: Cardboard
- Cm 74 x 113 x 143 H - Kg. 156



SERIES STANDARD “DISTATIC”

Model Ci 60 Ax LCD



- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 60 litres
- Total volume of the boiler: 103 litres
- Inner diameter of the boiler: 400 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 230 V - 50 Hz
- Electrical supply: single phase + earth
- 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: cm 69 x 110 x 160
- Weight: 180 kg
- Packing list for shipment: Cardboard
- Cm 118 x 153 x 197 H - Kg. 242

Model Ci 120 Ax LCD

- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 120 litres
- Total volume of the boiler: 210 litres
- Inner diameter of the boiler: 500 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400 V - 50 Hz
- Electrical supply: three phases + earth
- 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: universal
- Dimensions: cm 151 x 114 x 200
- Weight: 361 kg
- Packing list for shipment: Cardboard
- Cm 175 x 135 x 217 H - Kg. 453



SERIES STANDARD “DISTATIC”



Model Ci 160 Ax LCD

- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 160 litres
- Total volume of the boiler: 222 litres
- Inner diameter of the boiler: 500 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400 V - 50 Hz
- Electrical supply: three phases + earth
- 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: cm 151 x 120 x 210
- Weight: 433 kg
- Packing list for shipment: Cardboard
- Cm 175 x 135 x 217 H - Kg. 513

Models CiM

Units equipped with:

- automatic loading by pneumatic membrane pump,
- automatic unloading of the distillate by pneumatic membrane pump,
- enclosure panels,
- possibility to set one or more consecutive cycles,
- possibility to run a continuous batch

Models available:

- CiM 30 Ax LCD
- CiM 60 Ax LCD
- CiM 120 Ax LCD
- CiM 160 Ax LCD

Other characteristics as per previous related models.





ADDITIONAL

“REC BAG” Bags for Distillation Residues

The use of “Rec Bag” allows achieving a high concentration of solid contaminants (paints, pigments, resins, polymers, inks, etc.) with a consequent higher distillation yield. It means to get a process residue with a very low content of residual water or solvent; this residue, contained inside the bag, is easy and quick to discharge, avoiding any contact with sludge and any cleaning of the boiler.

Supplied in packages of 50 pieces



WASTE WATER CONCENTRATION UNITS

With the introduction of stringent environmental requirements that restrict the use of Volatile Organic Compounds (VOCs), there has been an increasing demand for water based paints because they provide an ecological solution to the problem. However, water based paints create polluted water from washing and cleaning tools and equipment after use. There are different ways to treat this water and the most common is the addition of coagulants and flocculants, but these can be difficult to use as they require precise dosage followed by mixing to obtain good results. The modern way is to separate the paint by distillation, a well proven method that has been used for treating thinners and solvents for many years.

FUNCTIONING PRINCIPLE

The FORMECO concentration units allow the recovery and reuse of the polluted water utilised for cleaning and rinsing, in different application fields.

Through a simple distillation process, they separate the contaminants (normally paint, but also resins, pigments, inks and oils, depending on the application field) from the water, which is recovered in a separate tank for its reuse. At the end of the process the contaminant remains in the bottom of the boiler and it can be easily unloaded by tilting the plant or by the use of “Rec Bags”. The boiling of the water is accomplished by a peripheral heating jacket filled with diathermic oil, heated by an electrical element. The vapours are then conveyed to a condenser, cooled by air circulation (or, optionally by water in open circuit). The distilled water is collected in a tank ready for reuse. During the process the plant does not produce any emissions.

TERMS

Distatic

Distillation units with tilting boiler: residue unloading by means of mono-use bags “Rec Bag” (for solid contaminants) or tilting the unit (liquid contaminants). In the event of solid contaminants, the concentration of the process residues inside the bag is excellent: a solid cake which is easy to dispose off.

Ci = Water Splash Proof

Distillation units with water splash proof electrical protection, normally used for treating water and Not Inflammable solvents.

15 ... 160 = Loading capacity

Effective loading capacity of the boiler (litres)

Ax = Air condenser

Vapour condenser made of Stainless Steel AISI 304/316 cooled by air with a ventilation fan.

LCD = Liquid crystal display

Control board with LCD for time regulation.

SERIES STANDARD “DYNAMIC”



Model CiQ 60 Ax LCD

- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 60 litres
- Total volume of the boiler: 103 litres
- Inner diameter of the boiler: 400 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400 V - 50 Hz
- Electrical supply: three phases + earth
- 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: cm 69 x 110 x 160
- Weight: 260 kg
- Packing list for shipment: Cardboard
- Cm 118 x 153 x 197 H- Kg. 322

Model CiQ 120 Ax LCD

- Water Splash Proof
- For recycling water and not flammable solvents
- Loading capacity: 120 litres
- Total volume of the boiler: 210 litres
- Inner diameter of the boiler: 500 mm
- Processing time: up to 24 hours
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400 V - 50 Hz
- Electrical supply: three phases + earth
- 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: universal
- Dimensions: cm 151 x 114 x 200
- Weight: 473 kg
- Packing list for shipment: Cardboard
- Cm 175 x 135 x 217 H - Kg. 453





INNER SCRAPER

Distillation units with tilting self-cleaning boiler equipped with scraper having adjustable metallic blades for the highest concentration/drying of the process residues.

Keeping in movement the product to be treated we obtain the complete separation between solvent and contaminants, for the highest yield on distillation.

An automatic drying cycle allows the residues to be extracted as a powder. Discharge by tilting the plant.



WASTE WATER CONCENTRATION UNITS

With the introduction of stringent environmental requirements that restrict the use of Volatile Organic Compounds (VOCs), there has been an increasing demand for water based paints because they provide an ecological solution to the problem. However, water based paints create polluted water from washing and cleaning tools and equipment after use. There are different ways to treat this water and the most common is the addition of coagulants and flocculants, but these can be difficult to use as they require precise dosage followed by mixing to obtain good results. The modern way is to separate the paint by distillation, a well proven method that has been used for treating thinners and solvents for many years.

FUNCTIONING PRINCIPLE

The FORMECO concentration units allow the recovery and reuse of the polluted water utilised for cleaning and rinsing, in different application fields.

Through a simple distillation process, they separate the contaminants (normally paint, but also resins, pigments, inks and oils, depending on the application field) from the water, which is recovered in a separate tank for its reuse. At the end of the process the contaminant remains in the bottom of the boiler and it can be easily unloaded by tilting the plant. The boiling of the water is accomplished by a peripheral heating jacket filled with diathermic oil, heated by an electrical element. The vapours are then conveyed to a condenser, cooled by air circulation (or, optionally by water in open circuit). The distilled water is collected in a tank ready for reuse. During the process the plant does not produce any emissions.

TERMS

Q - Dynamic

Distillation units with tilting self-cleaning boiler equipped with scraper having adjustable metallic blades for the highest concentration/drying of the process residues. Keeping in movement the product to be treated we obtain the complete separation between water or solvent and contaminants, for the highest yield of distillation.

Ci = Water Splash Proof

Distillation units with water splash proof electrical protection, normally used for treating water and Not Inflammable solvents.

60-120 = Loading capacity

Effective loading capacity of the boiler (litres)

Ax = Air condenser

Vapour condenser made of Stainless Steel AISI 304/316 cooled by air with a ventilation fan.