

SOLVENT DISTILLATION UNIT



FEATURES



FROM 10 TO 180
LITERS/DAY



MANUAL
OPERATION



VACUUM
DISTILLATION



ATEX
CERTIFICATION



ANALOGUE
PROGRAMMING



DISTILLATION
BAGS

WHY CHOOSE CIEMME



OVER 40 YEARS OF HISTORY

The first company in Italy registered with the Chamber of Commerce (16 March 1982) for the production of solvent distillers.

"Rely on our experience. We will be able to provide you with the state-of-the-art technical solution that suits your needs."



MAXIMUM BUSINESS RELIABILITY

Certification of RATING 1 as the highest financial reliability of the company. This allows us to be referenced in the most important industrial groups in the world that we have supplied with mutual satisfaction.

"We will continue to provide you with maximum support over time. Day by day."



MORE SAFETY AND CONTROLS

We install up to 11 more controls and safety devices than required by regulations to ensure maximum process reliability and risk prevention.

"Safety is our priority. Our equipment can operate in complete autonomy even if they are not supervised."



5 YEAR WARRANTY

We are the only solvent distiller manufacturer that offers its customers a 5-year warranty with simple and clear conditions.

"The reliability of our systems is not just in words, but through a concrete and unique warranty."



RCT AND RCO INSURANCE INCLUDED

With a cumulative insured of € 50.000.000, in the event of unforeseen events, we guarantee coverage with the best insurance companies on the market.

"Whatever happens at the distillation unit, we will be by your side to support you."

PRESS

FEATURES

The solvents used in the industrial printing sectors must be treated through a distillation process with the following characteristics:

- Air-cooled, high-performance vapour condenser (built on a Ciemme design).
- Optimisation of the cycle time by reading the vapours or by timer.
- Vacuum generator that allows to reduce the distillation temperature, limiting the risk of generating an exothermic reaction due to **nitrocellulose**¹.
- Containment tank for any accidental overflow and in compliance with environmental and safety standards.
- Possibility of using the distillation bag for the easy discharge of sludge and to keep the boiling chamber clean.

Technical notes

¹ **Nitrocellulose** can react by self-combustion when the temperature exceeds 125°C. Thanks to the vacuum generator, it is possible to reduce the boiling temperature in order to carry out the distillation cycle safely.

SOLVENTS LIST

The most commonly used and treated solvents in the **industrial printing** sector are:

- Heptane
- Isopropanol
- Isobutanol
- Ethyl acetate
- Ethyl alcohol
- Ethanol
- n-Propyl acetate
- Methoxypropanol



PHOTOPOLYMER

FEATURES

The solvent used for the production of photopolymer plates must be treated through a distillation process with the following characteristics:

- Air-cooled, high-performance vapour condenser (built on a Ciemme design).
- Optimisation of the cycle time by reading the vapours or the timer.
- Vacuum generator to reduce the distillation temperature; particularly useful for the new ecological solvents that have components with boiling points that can exceed 200°C.
- Containment tank for any accidental overflow and in compliance with environmental and safety standards.
- Possibility of using the distillation bag for the easy discharge of sludge and to keep the boiling chamber clean.
- In case of chlorinated solvents, the machine is equipped with a stainless steel condenser to avoid corrosion.

SOLVENTS LIST

The most commonly used and treated solvents in the **photopolymer plate development** industry are:

- Cyrel
- Flexosolv
- Nylosolv
- N-Butanol
- Perchlorethylene
- Polysolve



COATING & INDUSTRY



FEATURES

The solvents used in coating, painting and various industrial processes must be treated through a distillation process with the following characteristics:

- Air-cooled, high-performance vapour condenser (built on a Ciemme design).
- Optimisation of the cycle time by reading the vapours or by timer.
- Vacuum generator to reduce the distillation temperature, particularly useful for high boiling or thermolabile solvents (which degrade at too high heating temperatures).
- Containment tank for any accidental overflow and in compliance with environmental and safety standards.
- Possibility of using the distillation bag for the easy discharge of sludge and to keep the boiling chamber clean.
- In case of chlorinated or chemically aggressive solvents, the machine is equipped with a high performance stainless steel condenser to avoid corrosion.
- For those particular applications where a high quality and purity of the distilled solvent is required, it is possible to manufacture the machine with all the parts in contact with the solvent in stainless steel.

SOLVENTS LIST

The most commonly used and treated solvents in the **coating, painting and various industrial processes** are:

- Butanone
- Butylglycol
- Dichloromethane/Dichloroethane/Perchloroethylene
- Cyclohexane
- Ethanol/Isopropyl alcohol
- Hydrocarbons
- Isobutanol
- Isopropyl acetate
- MEK/MIBK
- Methyl acetate/Propyl acetate
- N-butanol/N-butanone
- NMP
- Solvesso 100-150-200
- Toluene
- White spirit
- Acetone
- Acrylic/Polyurethane/Epoxy thinner
- Nitro/Anti-fog thinner
- White spirit

CHEMISTRY & EXTRACTION



FEATURES

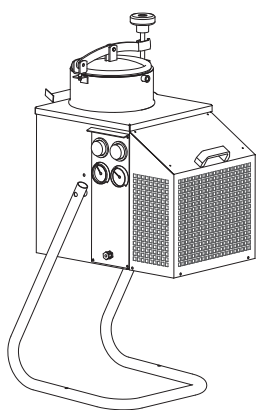
The solvents used in the production processes for the chemical and extraction sectors must be treated through a distillation process with the following characteristics:

- Air-cooled, high-performance vapour condenser (built on a Ciemme design).
- Optimisation of the cycle time by reading the vapours or by timer.
- Vacuum generator to reduce the distillation temperature, particularly useful for high boiling or thermolabile solvents (which degrade at too high heating temperatures).
- Containment tank for any accidental overflow and in compliance with environmental and safety standards.
- Possibility of using the distillation bag for the easy discharge of sludge and to keep the boiling chamber clean.
- In case of chlorinated or chemically aggressive solvents, the machine is equipped with a high performance stainless steel condenser to avoid corrosion.
- For those particular applications where a high quality and purity of the distilled solvent is required, it is possible to manufacture the machine with all the parts in contact with the solvent in stainless steel.

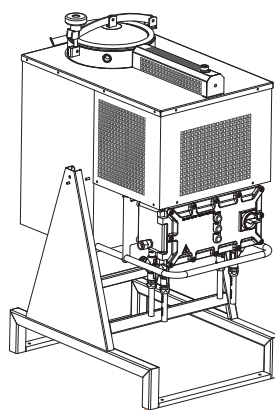
SOLVENTS LIST

The most commonly used solvents in production processes for the **chemical and extraction** sectors are:

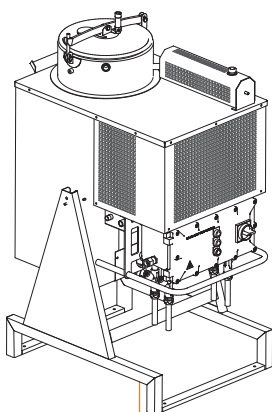
- Ethyl alcohol
- Methyl alcohol
- N-propyl alcohol
- Isobutyl alcohol
- Isopropyl alcohol
- Acetone
- Butyl alcohol
- Ethanol



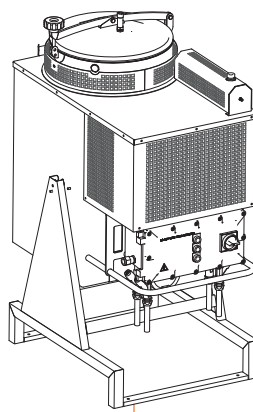
K10



K16



K30



K60

| MODEL | K10 | K16 | K30 | K60 |
|-----------------------------------|------------------|------------------|------------------|------------------|
| Loading volume (lt) | 10 | 18 | 37 | 67 |
| Total boiling chamber volume (lt) | 13,5 | 24 | 49 | 87 |
| Supply voltage | 220V/1 - 50Hz | 220V/1 - 50Hz | 220V/1 - 50Hz | 220V/1 - 50Hz |
| Heating power (kw) | 1,2 | 1,6 | 2,5 | 3,2 |
| Oil quantity (lt) | 6 | 13,3 | 15,40 | 23,40 |
| Average daily productivity (lt) | 10 - 30 | 18 - 54 | 37 - 111 | 67 - 180 |
| Dimension (cm) | 44 x 60 h 103 | 55 x 80 h 113 | 66 x 96 h 126 | 66 x 96 h 126 |
| Weight (kg) | 38 | 95 | 96 | 113 |
| Certification | CE | CE / ATEX II2G | CE / ATEX II2G | CE / ATEX II2G |

Distributed by



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