

# L-DESTA

## for solvent recycling

The newly developed vacuum still L-DESTA is the youngest member in the product family of Ch.Batsch Verfahrenstechnik GmbH. And the smallest.

The L-DESTA is designed for the recycling of contaminated solvents, especially for all applications with smaller quantities to be processed, where the purchase of a larger distillery, e.g. the DESTA series, will only be profitable after a much longer period of time.

The L-DESTA is suitable with its vacuum method for all low boilers with an atmospheric boiling point between 40 °C and 100 °C. Thanks to the vapour compression, the L-DESTA comes without additional heating. The compressed solvent vapour provides the heat needed to vaporize the contaminated solvent at 900 mbar vacuum. Due to the vapour compression and the waste heat utilization of the rotary vane pump no further heat source is necessary for the evaporation of the solvent at a vacuum of 900 mbar. This makes the system extremely energy efficient.

The minimalist construction comes with only a few components. These include amongst others a vacuum pump, pneumatic valves and a level sensor. The standard version of the L-DESTA is ATEX compliant. The L-DESTA is delivered as a desktop device or mobile on wheels.

The compact control system allows a completely automatic operation, which also includes independent filling and discharging. An automatic shutdown at full distillate or residue containers guarantees safe operation any time. Also, the machine shuts down in case of an empty waste solvent storage container.

The L-DESTA is self-cleaning and provides an easy access in case of maintenance. The system was developed especially for laboratories, the paint industry and all businesses with a cleaning requirement for polluted solvents from 20 to 100 liters / day.



L-DESTA

### Solvents that can be recycled include:

- // Acetone
- // MEK (methyl ethyl ketone)
- // Ethyl acetate
- // Ethanol
- // Isopropanol



Results of the solvent distillation  
(before & after)

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## Vacuum distillation with L-DESTA Technical Data:

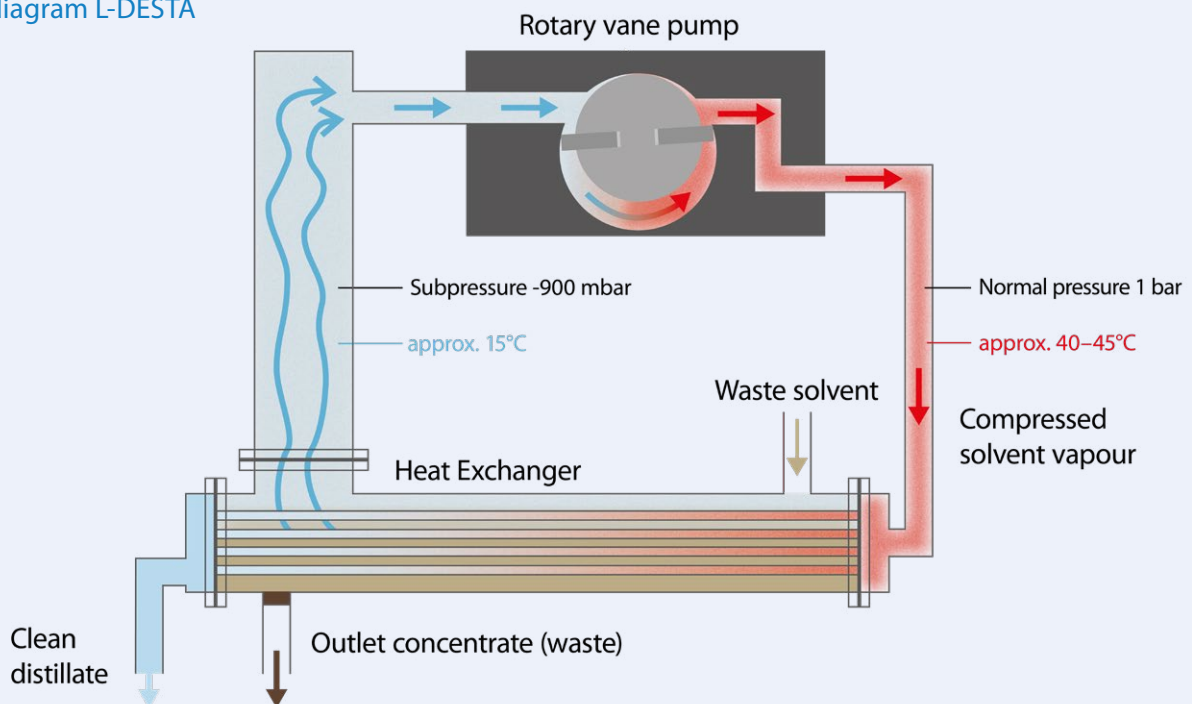
- // Dimensions 1240 x 660 x 1000 mm (LxWxH)
- // Process: Solvent distillation under vacuum with vapor compression
- // CE-compliant, ATEX-compliant, compliant with the Equipment Directive
- // Solvent: Low boilers with boiling point between 40 °C and 100 °C
- // Throughput: 8 – 20 liters/hour
- // Solvent content: approx. 8 liters (dirty solvent)
- // Operating mode: up to 3-shift, automatic
- // Connected Load: approx. 1.5 kWh (connected load)
- // Voltage: 3 x 400 V 50 Hz + N + PE
- // Control air: 6 bar
- // System weight (net): approx. 70 kg
- // Color: stainless steel → nature, frame → RAL 5015, cladding → RAL 7035
- // Miscellaneous:
  - Independent self filling and emptying in 3-shift operation
  - Automatic shutdown at full distillate or residue container
  - Self-cleaning
  - Easy access to all components

The distillation unit is CE marked and works without waste water and exhaust air. It corresponds in design to all national and European regulations (VOC guidelines, etc.). Reserve technical changes.



Heat exchanger (supply side)

## Process diagram L-DESTA



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