

MONTZ

DISTILLATION SOLUTIONS

FOR PPB/PPT AND ELECTRONIC GRADE APPLICATIONS

Precision and Purity at the Forefront of Distillation Technology

At Montz™ by Koch-Glitsch, we redefine industry standards with our advanced distillation solutions, designed to deliver ultimate cleanliness, high purity levels, and exceptional efficiency, tailored to exceed the demanding requirements of complex applications such as electronic grade solvent production and ppb/ppt grade distillation processes.

Product Range



MONTZ C1 PTFE PACKING



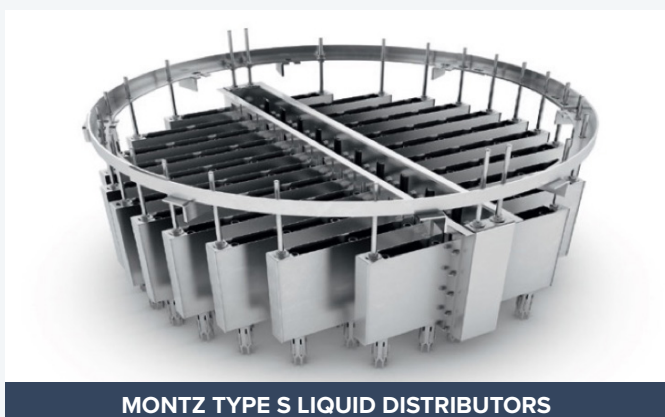
ELECTROPOLISHED INTERNALS



WALL WIPERS



ELECTROPOLISHED STRUCTURED PACKING



MONTZ TYPE S LIQUID DISTRIBUTORS



MONTZ LIQUID DISTRIBUTOR TEST

STRUCTURED PACKINGS AND INTERNALS

- **Montz C1 PTFE Packings** Non-metal structured packing specially designed for ppb/ppt and electronic grade distillation.
- **Montz B1 Metal Sheet Packings** Standard packing with high flexibility to a wide range of applications. Electropolishing of the packing possible.
- **Montz A3 Wire Gauze Packings** For high separation efficiency and the lowest pressure drop, including the high-performance A3-500M type, FRI tested for reliability and providing the lowest pressure drop per theoretical stage.
- **Supplementary components** such as **Wall Wipers**, ensuring maximum efficiency by sealing the wall gap, avoiding the vapor and liquid bypass.

REFERENCES FOR PPT/PPB AND ELECTRONIC GRADE APPLICATION

Proven success across multiple industries and processes—tailored to semiconductor wet chemicals' precision and purity demands, demonstrating our adaptability and cross-industry expertise.

- Trichlorosilanes
- Polysilicons
- Fluorocarbons (e.g. C₄F₆, C₄F₈, C₃F₈, CF₄)
- Isopropyl alcohol (IPA)
- HCL
- TMA/TMAH
- Anhydrous Hydrogen Fluoride (AHF)
- Propylen glycol monomethylether (PGME)
- Propylenglycolmonomethyletheracetat (PGMEA)
- CO

LIQUID DISTRIBUTORS

- Enhance fractionation with superior liquid distribution: >200 drip points per square meter and <3% standard deviation between drip points, ensuring consistent quality across a wide turn-down ratio for optimal ppb/ppt grade distillation performance.

DIVIDING WALL COLUMN

Ideal for high reflux requirements in ppb/ppt/electronic grade distillation:

- 30–50% energy savings vs. conventional columns
- 15–30% lower capital costs
- 30% smaller footprint

KEY FEATURES AND PROCESS ADVANTAGES

- **Outstanding Liquid Distribution:** Optimal distribution range of 0.020–250 m³·m⁻²·h⁻¹, < 3% standard deviation across a high number of drip points, 1:4 turndown ratio. *All distributors tested with water on Montz test stand (certified report provided); customer witnessing available.*
- **Low Δp:** Exceptional column design minimizes pressure drop for maximum efficiency.
- **High Efficiency:** Precision packings deliver maximum separation performance, ensuring a high number of theoretical stages per meter.
- **Superior Purity:** Enables distillation process down to ppt levels via advanced packings and internals.
- **Guaranteed Cleanliness and Quality:** Oil and grease-free manufacturing process sets a benchmark for purity, capped at 20 mg·m⁻² contamination guarantee.
- **Application Expertise & Tailored Innovation:** Leverage our concept-phase know-how and ability to develop customized engineered solutions for your unique distillation requirements and challenges.

To learn more, contact us at insidesalesmontz@kes.global.

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For a complete list of our offices and facilities, visit koch-glitsch.com.