



## IONEX A, B, KA, KB WASTE WATER TREATMENT SYSTEM

The name IONEX stands for ION-EXchanger, which is the very heart of this modern waste water treatment system. The Ionex is a modern and compact plant to treat rinsing water of a pcb laboratory. We offer 4 basic variants, which differ in rinsing water throughput and ion capacity. Type A and B are equipped with a cotton pre-filter, two cation columns and a ph neutralization column. Type KA and KB have three ion exchange columns.

The cation columns color red, when loaded with ferric ions and blue/green, when loaded with copper ions. Loading of anion column can be tested by measuring the conductance of the cleaned water. Loaded columns can be sent to Bungard for regeneration or we support you to do the regeneration yourself.

The drain water quality from this system is in accordance to German directives, which are of the highest standards world wide!

### Features:

- For posttreatment of etching and galvanic rinsing water
- Removal of solids and all heavy metals
- closed water cycle possible (K-versions)
- Decrease of chemical oxygen demand
- Integrated storage sump with 110l (A/KA) or 220 l (B/KB) for collecting rinsing water
- Strong built-in hose pump
- Integrated cotton filter candle 10 µm (active carbon filter with K-versions)
- Significant change of color when loaded with metals
- Lower and upper sump level control switch
- Easy handling and operation
- Regeneration of ion exchange resins by supplier or by user at little cost
- IONEX A and B perform additionally PH neutralization and discharge to the drain



As an option the IONEX can be equipped with a conductance meter (IONEX KA/KB) or a pH-meter (IONEX A/B). This way you have the quality of the treated rinse water always under control.



### Closed loop rinsing water:

IONEX KA and KB filter next to the metallic cations also the anionic halogens from the rinsing water. The demineralized water is collected and pumped back to the etching or through-hole-plating machine.



IONEX Schema A-B



IONEX Schema KA-KB



Of course the machines of the IONEX family can be adapted according to your needs. The IONEX XXL e.g. cleans 1500 l of rinsing water. The IONEX AU filters gold ions out of rinsing water from a nickel-gold-processing machine. These gold ions can be regenerated and returned to the gold bath.



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### IONEX A / KA

Power supply:	230 V, 50 Hz, 50 W
Weight:	30 kg
Tank capacity:	110l
Cleaning capacity:	10 l / h
Size (HxDxL):	1400 x 425 x 600 mm

### IONEX B / KB

Power supply:	230 V, 50 Hz, 100 W
Weight:	60 kg
Tank capacity:	220 l
Cleaning capacity:	20 l / h
Size (HxDxL):	1400 x 850 x 600 mm



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