

INDION® Layered Bed Anion System

INDION Layered Bed Anion (LBA) unit is a single vessel system with layers of two resins, INDION LBA-NB on top of INDION LBA-SB with down flow service. The layered bed system provides high chemical efficiency of a two-bed weak base anion and strong base anion system in a single vessel. Thus, it saves the cost of additional vessel, associated piping and valves. The layered bed anion system is always regenerated counter currently. Fresh caustic solution first comes in contact with strong base anion bed & then passes through the weak base anion bed. This provides high chemical regeneration to the strong base anion resins, resulting in excellent treated water quality and optimal utilization of regenerant, making the system highly efficient.

Layered bed anion units are available in ASME and IE Good Engineering Practices.

Advantages

- Single vessel system resulting in:
 - Capital cost savings
 - Lower footprint
- High efficiency in chemical usage due to high throughput capacity
- Lower operating costs as compared to a conventional system
- Contemporary design and easy to retrofit in the existing system
- Lowest cost of production of demineralized water



Applications

- INDION LBA system is proven to be an excellent choice for all plants as substitute of two bed weak base and strong base anion system since it provides an optimum balance between investment and operating cost.
- INDION LBA system can be selected to treat water with low alkalinity when the system has no degreaser unit and where BDA is typically greater than 60% of the total anions. It can be selected to treat all other water when the system has degreaser unit especially if TDS is not too low.