

Pure Water System LabTower EDI, TKA Wasseraufbereitungssysteme

Pure water system LabTower EDI

TKA - LabTower EDI is a modularly structured ultra-pure water system and has been developed especially for the functional and economical production of pure and ultra-pure water. By means of the combination of different treatment technologies such as pre-treatment, reverse osmosis, electro-deionisation and ultra-pure water module, the LabTower EDI produces an ultra-pure water which exceeds highest quality standards such as ASTM I, ISO 3696, CLSI and aqua purificata. A state-of-the-art micro-processor control, the 100 l pure water tank with complete draining, a pressure pump as well as a tank recirculation are already part of the standard. Mounted on rollers, the compact and elegant LabTower EDI is the ideal pure and ultra-pure water supply for any laboratory.

Features:

- Two in one! The powerful modules for reverse osmosis, electro-deionisation and production of ultra-pure water are perfectly coordinated. Two units that can be operated as one.
- Two different ways to remove water! Sterile removal of ultra-pure water directly at the unit (ASTM I) and removal from the tank for direct supply of analyzers, autoclaves, glassware cleaners, and ultra-pure water systems (ASTM II)
- Lab-compliant monitoring and documentation for highly precise conductivity monitoring pursuant to USP directly upstream of the tapping point, as well as an RS 232 interface

Ultra-pure water specifications ASTM type I:

Conductivity in $\mu\text{S} \times \text{cm}$:	0.055
Resistance in $\text{M}\Omega \times \text{cm}$:	18.2
Removal performance l/min.:	up to 2
TOC-Value in ppb:	< 10
TOC-Value in ppb (models with UV):	1 – 5
Bacteria content in KbE/ml with sterile filter:	< 1
Particle content per ml with sterile filter:	< 1
Optional:	Ultrafilter
Retention of Endotoxins*, RNase*, DNase*	

Pure water specifications ASTM type II:

Conductivity** in $\mu\text{S/cm}$:	0.067 – 0.1
Resistance** in $\text{M}\Omega \times \text{cm}$:	15 to 10
RO-EDI rate of production into the tank at 15° C, l/h	15 / 30
Silicate retention in %:	> 99.9

Technical specifications:

Connection voltage in V/Hz:	230 / 50-60
Power consumption in kW:	0.25
Feedwater connector:	d8/R3/4"
Ambient temperature in °C:	+ 2°C – + 35°C
Dimensions in mm WxDxH:	450 x 580 x 1.500

* Depending on the quality of feeder water

** at < 30 ppm CO_2 in feeder water

Model	Flow rate at 15°C l/h	Weight kg	Order No.
LabTower 15 EDI	15	66	10 86 64415
LabTower 30 EDI	30	66	10 86 64430

Accessories

Article	Order No.
Sterile overflow	93 86 65001
CO_2 absorber + sterile aeration filter	93 86 65002
Sterile ventilation filter	93 86 65003
UV-tube system for pure-water tank	10 86 65006
UV-unit for TOC reduction 185/254 nm	10 86 60013
Sterile filter 0.2 μm	93 86 91003
Sterile filter 0.1 μm	10 86 61021
Ultrapure water filter set	93 86 92005
Sterile filter cartridge 0.2 for pressure outlet at the tank	10 86 65555
Prefilter candle + AK for pretreatment	93 86 65203
Hardness stabilization for pretreatment	93 86 65453

