

Pure Water System LabTower EDI, Thermo Scientific

① LabTower EDI

The direct way from drinking water to ultrapure water (18.2 MOhm) and high-purity water (> 10 MOhm)

Laboratory water supply for a requirement of up to 200 l/day. The free-standing Thermo Scientific LabTower EDI is an ultrapure water system of modular design, developed specifically for practical and cost-efficient production of ultrapure and high-purity water. Combining various treatment technologies such as a pre-treatment, reverse osmosis, electro de-ionization, ultrapure water module and UV lamp, the LabTower EDI turns drinking water into ultrapure water which exceeds even the strictest quality standards such as ASTM I, CAP, ISO 3696, CLSI, and aqua purificata. A state-of-the-art microprocessor control, the 100 l high-purity water reservoir with residual draining function, a pressure pump, and the reservoir recirculation are comprised in the standard delivery. Mounted on rollers, the compact, attractively shaped LabTower EDI provides ultrapure and high-purity water for every laboratory. All LabTower EDI systems are supplied ready for immediate use. The Tower comes complete with: ultrapure water cartridge, RO membrane, RO pre-treatment filter (5 µm filter and water hardness stabilizer), EDI module, UV lamp, 0.2 µm end filter, and pressure reducer.

Ultra-pure water specifications ASTM type I:

Removal performance l/min: 1.5
 Conductivity in µS × cm: 0.055
 Resistance in MΩ × cm: 18.2
 TOC-Value in ppb: 1–5
 Bacteria content in KbE/ml: < 1
 Particle content per ml: < 1

Pure water specifications ASTM type II:

Permeate production in l/h 15 or 30
 at 15°C:
 Conductivity in µS/cm: 0.1 – 0.067
 Resistance in MΩ × cm: 10 – 15

Technical data:

Dimensions (W×H×D): 450 × 1500 × 580
 Mains connection: 90-240 V/50 Hz, rubber connector 1.8 m
 Raw/feed water: Drinking water, 2 to 6 bar
 Feed water connection: Hose 1.5 m with 8 mm outside diam. and ¾" inner thread
 Waste water connection: ¼" or 8 mm outside diam., hose 2 m, unpressurized outlet
 Weight empty: 58 kg

Article	Order No.
LabTower EDI 15	10 86 64415
Complete ultrapure and high-purity water supply of one or several laboratories for requirements of up to 100 l/day	
LabTower EDI 30	10 86 64430
Complete ultrapure and high-purity water supply of one or several laboratories for requirements of up to 200 l/day or higher peak requirement per hour, for example for supplying several autoclaves and/or warewashing units	

Accessories on request.

② LabTower RO

The direct way from drinking water to reverse osmosis water with integrated 100-liter reservoir

Laboratory water supply for a requirement of up to approx. 200 l/day. The free-standing Thermo Scientific LabTower RO produces reverse osmosis water from drinking water. It has the capacity to meet medium requirements, for example for an entire laboratory floor, and stores the RO water in its integrated lightproof 100-liter polyethylene reservoir. A state-of-the-art microprocessor control, the 100 l high-purity water reservoir with residual draining function, and a pressure pump are comprised in the standard delivery of the LabTower RO. Mounted on rollers, the compact, attractively shaped LabTower RO provides high-purity water for every laboratory. All LabTower RO systems are supplied ready for immediate use and come complete with: RO pre-treatment filter (5 µm filter and water hardness stabilizer), RO membrane, integrated 100 liter reservoir, and pressure reducer.

High-purity water specification:

Flow rate l/h at 15°C: 20 or 40
 Retention rate of inorganic substances: 98%
 Retention rate of bacteria/particles: 99%

Technical data:

Dimensions (W×H×D): 450 × 1500 × 580
 Mains connection: 90-240 V/50 Hz, rubber connector 1.8 m
 Raw/feed water: Drinking water, 2 to 6 bar
 Feed water connection: e 1.5 m with 8 mm outside diam. and ¾" inner thread
 Waste water connection: ¼" or 8 mm outside diam., hose 2 m, unpressurized outlet
 Weight empty: 39 kg



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Article	Order No.
LabTower RO 20	10 86 64420
High-purity water supply of one or several laboratories for requirements of up to 100 l/day	
LabTower RO 40	10 86 64440
High-purity water supply of one or several laboratories for requirements of up to 200 l/day or higher peak requirement per hour, for example for supplying several autoclaves and/or warewashing units	
Accessories on request.	

③ LabTower TII

The direct way from drinking water to high-purity water (1 to 10 MOhm) pursuant to ASTM type II

Laboratory water supply for a requirement of up to 200 l/day. The free-standing Thermo Scientific LabTower TII is a high-purity water system of modular design. Combining various treatment technologies such as a pre-treatment, reverse osmosis, ion exchanger, and optional UV lamp, the LabTower TII turns drinking water into high-purity water which exceeds even the strictest quality standards such as ASTM II, CAP, ISO 3696, and CLSI. A state-of-the-art microprocessor control, the 100 l high-purity water reservoir with residual draining function, a pressure pump, and the reservoir recirculation are comprised in the standard delivery. Mounted on rollers, the compact, attractively shaped LabTower TII provides high-purity water for every laboratory. All LabTower TII systems are supplied ready for immediate use and come complete with: RO pre-treatment filter (5 µm filter and water hardness stabilizer), RO membrane, ion exchanger, UV lamp (TII UV), 0.2 µm end filter, and integrated 100 liter reservoir.

Pure water specifications ASTM type II:

Permeate prod./flow rate in l/h at 15°C:	20 or 40
Conductivity in µS/cm:	0.1 – 1
Resistance in MΩ × cm:	10 – 1
Bacteria content in KbE/ml:	< 1
Particle content per ml:	< 1

Technical data:

Dimensions (W×H×D):	450 × 1500 × 580
Mains connection:	90-240 V/50 Hz, rubber connector 1.8 m
Raw / feed water:	Drinking water, 2 to 6 bar
Feed water connection:	Hose 1.5 m with 8 mm outside diam. and ¾" inner thread
Waste water connection:	¼" or 8 mm outside diam., hose 2 m, unpressurized outlet
Weight empty:	58 kg

Article	Order No.
LabTower TII 20	10 86 64520
High-purity water supply of one or several laboratories for requirements of up to 100 l/day	
LabTower TII 40	10 86 64540
High-purity water supply of one or several laboratories for requirements of up to 200 l/day or higher peak requirement per hour, for example for supplying several autoclaves and/or warewashing units	
LabTower TII 20 UV	10 86 64620
High-purity water supply of one or several laboratories for requirements of up to 100 l/day, with UV lamp 254/185 nm for reduction of organic contamination	
LabTower TII 40 UV	10 86 64640
High-purity water supply of one or several laboratories for requirements of up to 200 l/day or higher peak requirement per hour, for example for supplying several autoclaves and/or warewashing units, with UV lamp 254/185 nm for reduction of organic contamination	

Accessories on request.

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