



## IONPURE® LabXT LABORATORY ELECTRODEIONIZATION (CEDI) MODULES

### THE IONPURE LabXT MODULES

The Ionpure® LabXT series of modules are designed with our proven continuous electrodeionization (CEDI) technology. Performance of these modules have been optimized to provide ultrapure water for a wide range of laboratory and very low flow applications. LabXT's nominal flow rates from 3 to 15 liters per hour (lph) allowing for simple and effective system design to reduce overall capital cost.

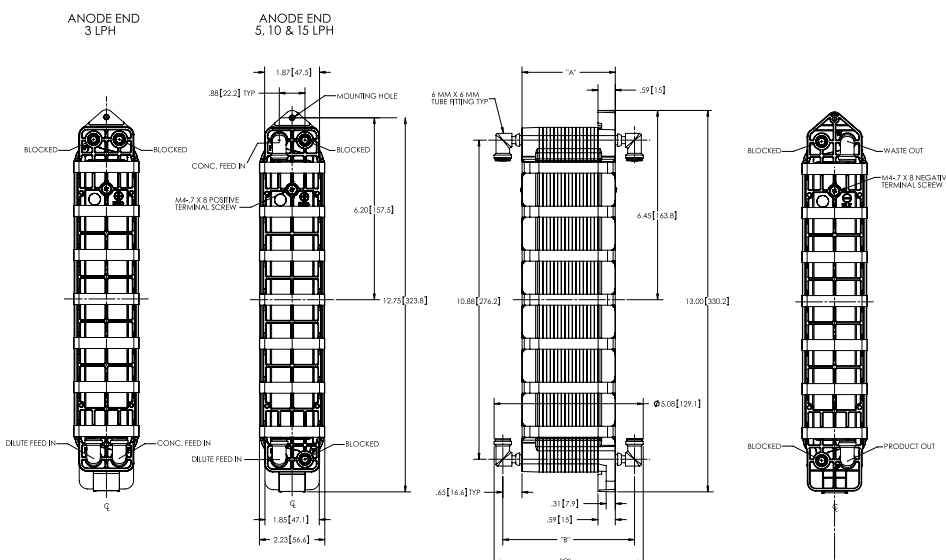
With the design of the LabXT modules, end-users with a EMD Millipore Elix® system can extend the life of their system by utilizing LabXT as a direct replacement to the Elix module for maintenance and service of existing Elix systems.

### LabXT Series Features

- Low extractable natural polysulfone construction
- Packaged and assembled with connections and wiring for direct Elix module replacement
- Guaranteed leak free operation
- Effective 4-pass flow design
- Nominal Flow rates of 3 -15lph
- 2.5 ppm max feed water hardness (as  $\text{CaCO}_3$ )
- 1.5 ppm max feed water Silica (as  $\text{SiO}_2$ )
- Proprietary EDI Ionpure technology
- 6 MM tubing adapters for simple installations

### LabXT Power Supply

- Universal Power Input - 100 to 227 VAC 50/60Hz
- 100-200 mA Selectable output current
- UL, CSA, CE Compliant
- Compact design to easily adapt in system design





## OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient room temperature of 113°F (45°C).

## MATERIALS CONSTRUCTION

Wetted components of the LabXT module consist of: natural polysulfone, ion-selective membranes, ion exchange resins, and thermoplastic elastomer.

## QUALITY ASSURANCE STANDARDS

CE marked. Each module is factory tested to meet strict industry standards and is manufactured in an ISO 9001 and ISO 14000 quality and environmental management system.

## MAXIMUM FEED WATER SPECIFICATIONS

Water Quality	RO Permeate
CEDI Feed Water Conductivity	< 60 µS/cm
CO <sub>2</sub>	≤ 30 ppm as CO <sub>2</sub>
Temperature	41 - 95 °F (5 - 35 °C)
Total Chlorine	< 0.02 ppm as Cl <sub>2</sub>
Inlet Pressure	7.3 - 21.8 psi (0.5 - 1.5 bar)
TOC (as C)	≤ 500 ppb
Total Hardness (as CaCO <sub>3</sub> )	≤ 2.5 ppm
Silica (as SiO <sub>2</sub> )	≤ 1.5 ppm

\* At inlet to CEDI module

## LabXT POWER SPECIFICATIONS

0 To 115V 100 / 200 mA Power Supply				
Output Characteristics				
Parameter	Conditions	Min	Typ	Max
Output Voltage		0 V	-	115 V
Output current	100mA setting	90 mA	-	110 mA
Output current	200mA setting	180 mA	-	220 mA
Efficiency	Above 36V Output	80%	85%	-
Power Input	Below 36V Output 100mA setting	-	-	4.5 W
Power Input	Below 36V Output 200mA setting	-	-	9 W
Peak Short Circuit Current	At 115VDC Output	-	5.75 A	-
Peak Short Circuit Energy	At 115VDC Output	-	1.1 Joules	-

## LabXT POWER SUPPLY MAXIMUM RATING

Input Voltage (50 / 60 Hz)	227 VAC
Load Current	Self Regulating
Operating temperature	-40 °C to +65 °C
Storage temperature	-150 °C to +100 °C

## TYPICAL MODULE PERFORMANCE

Product Water Quality	
Product Resistivity	> 5 MΩ-cm (10 - 15 MΩ-cm typical)
TOC (with RO pretreatment)	< 30 ppb
Silica (SiO <sub>2</sub> )	> 99.9% removal
Recovery	60%
Flow Rate	3, 5, 10, and 15 lph

## MODULE ORDERING INFORMATION AND PHYSICAL SPECIFICATIONS

			Dimensions*			
Order #	Model #	Nominal Flow Rate	Depth *	Width	Height	Weight
W3T101571	IP-LabXT3	3 lph (.013 gpm)	4.08" (103.6mm)	2.23" (56.6mm)	13.0" (330.2mm)	2.3 lbs (1.04 kg)
W3T101572	IP-LabXT5	5 lph (.022 gpm)	4.59" (116.3mm)	2.23" (56.6mm)	13.0" (330.2mm)	2.8 lbs (1.27 kg)
W3T101573	IP-LabXT10	10 lph (.044 gpm)	5.08" (129.0mm)	2.23" (56.6mm)	13.0" (330.2mm)	3.3 lbs (1.50 kg)
W3T262701	IP-LabXT15	15 lph (.066 gpm)	6.08" (154.4mm)	2.23" (56.6mm)	13.0" (330.2mm)	4.3 lbs (1.95 kg)

\* Depth includes quick-connect adaptors, see dimension "C" on drawing

## POWER ORDERING INFO AND SPECIFICATIONS

Order #	Model #	Depth *	Width	Height
W2T813426	IP-POWER115LAB-01	4.80" (121.9mm)	4.0" (101.6mm)	1.5" (38.1mm)



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