



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.

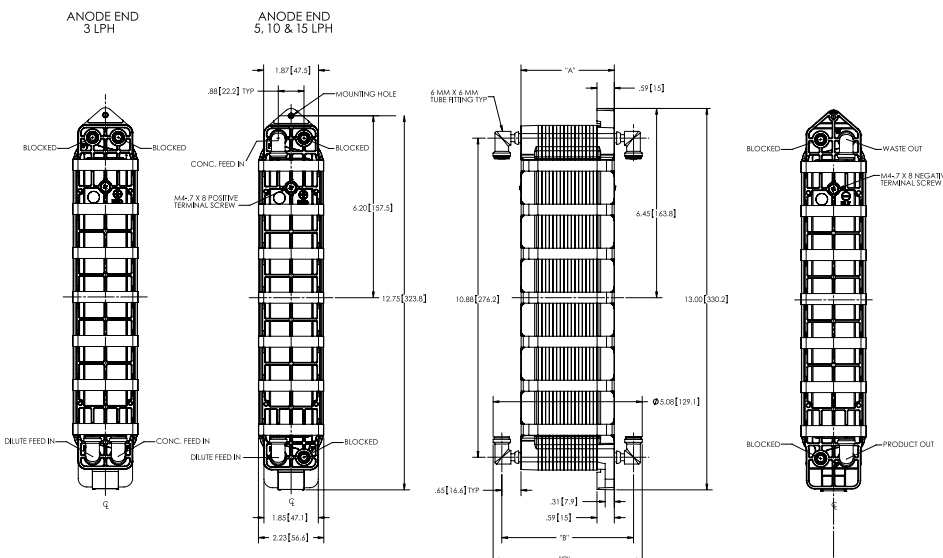
With the design of the LabXT modules, end-users with a EMD Millipore Elix® system can extend the life of their system by utilizing LabXT as a direct replacement to the Elix module for maintenance and service of existing Elix systems.

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 CaCO₃)
- 1.5 ppm max feed water Silica (as SiO₂)
- 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 ₂	≤ 30 ppm as CO ₂
Temperature	41 - 95 °F (5 - 35 °C)
Total Chlorine	< 0.02 ppm as Cl ₂
Inlet Pressure	7.3 - 21.8 psi (0.5 - 1.5 bar)
TOC (as C)	≤ 500 ppb
Total Hardness (as CaCO ₃)	≤ 2.5 ppm
Silica (as SiO ₂)	≤ 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 ₂)	> 99.9% removal
Recovery	60%
Flow Rate	3, 5, 10, and 15 lph

MODULE ORDERING INFORMATION AND PHYSICAL SPECIFICATIONS

Order #	Model #	Nominal Flow Rate	Dimensions*			Weight
			Depth *	Width	Height	
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)