

Total Service for Customer,
The Leading Partner of Bioscience Technologies



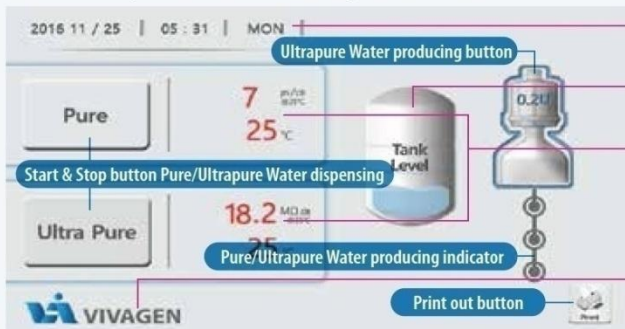
We are searching for pureness,
overcoming limitness

EXL[®]5

Lab Water System

Touch Screen (5")

For ease of use, the system is installed touch screen and provides intuitive information.



Time & Date

Year/Month/Day/Hour/Minute/Day of the week

Tank Level Indicator

It is easy to check tank level displayed in real time.

Status Indicator

Displays conductivity, Temperature

System controlled operation has pop-up message whenever it is out of range set point under monitoring in real time.

Menu (System information indicator)

Displays Model, S/N, Software version, Setting.

Auto RO Flushing

It can flush RO filter automatically to control optimal filter quality before and after producing Pure Water.

Built-In 20L Pressurized Tank

While open tanks have the risk of contamination by air, EXL® 5 uses pressurized tank which can perfectly block external contamination from inputting tap water to just before use.

Pressurized Tank Extension (Option 20L, 30L, 70L can be selected)

In addition to the built-in tank, several tanks can be installed outside.

(No additional sensor required, Tank height does not matter)

Displays Filter Information

Enable to view the filter usage, available time, and total output.

POU (Point Of Use Gun) Option

Built in quantitative sampling function to produce off Pure and Ultrapure Water as much as user wants. (0.1L ~ 99.9L units)

UV LAMP installed by default

EXL® 5 has a UV Lamp installed by default, which can produce Ultrapure Water with extremely low level of organic substances. Monitor the status of UV Lamp operation to maintain optimal condition.

Pure/Ultapur Water sampling simultaneously with only one EXL® 5 Series

Pure Water can be produced while dispensing Ultrapure Water, which allows for convenient experiment.

Monitoring Tap Water & Pure Water Tank Level

Monitor the condition of tap water to protect the equipment in case of a shortage.

It detects the water level of the storage tank and automatically stops producing Type I when water level is too low in order to protect filter and pump.

Setting and Monitoring the Water quality

Real-time monitoring of water quality for Pure and Ultrapure Water during production, and notifies by alarm whenever it is out of range set point.

Pump Monitoring

Real-time monitoring of the status of pump during working, and notifies by alarm when abnormality occurs.

Total Usage

Enable to confirm total output of Pure Water and Ultrapure Water

Fast Flow Rate

Pure Water: Up to 16L (32L)/hour. Ultrapure Water: Up to 120L/hour.

Leakage Detector

A leakage detector is installed in and out of the equipment by default to secure the safety.

EXL® 5 Bio

ASTM Type III&I Grade

• Molecular biology • PCR • DNA sequencing • Cell culture • Media preparation • Microbiology • In-vitro fertilization • Electrophoresis • Monoclonal antibody production

• Ultra-trace and trace-organic and organic analysis • HPLC • GC-MS • ICP-MS • TOC analysis • Ion chromatography • Solid phase extraction • Electrochemistry

EXL® 5 Lab Water System Pure & Ultrapure Water Quality

Series	Resistivity (at 25°C)	* TOC	** Bacteria	*** Endotoxin	Ultrapure			Flow Rate	RO Module Rejection Rates (Pure)							
					*** RNases (RNase-free)	*** DNases (DNase-free)	Particles (@0.2µm)		Resistivity (at 25°C)	Monovalent Ions	Polyvalent Ions	Particles	Microorganisms	Dissolved Organics (>300MW)	Product Flow Rate (±20% at 25°C)	Maximum Recovery Rate*
	MΩ·cm	ppb	CFU/mL	EU/mL	pg/mL	pg/mL	/ml	(l/min)	MΩ·cm	%	%	%	%	%	[l/h]	%
EXL® 5 Bio	18.2	<5	<0.01	<0.001	<1	<5	<1	Up to 2	Up to 98	Up to 98	>99	>99	>99	>99	Up to 16/32	Approx. 50

* TOC specs - Test Conditions: EXL® System equipped with Pre Carbon filter and DI cartridge and with feed (tap) water quality within specifications. Product water quality may vary due to local feed water conditions.

** Results with 0.2 Final Filter. *** Results with Ultra Filter polisher in place.

*Exclusively potable water according to the drinking water regulations of the USA, the European Union, Korea or Japan.

Feed Water Quality

Temperature	Conductivity (at 25°C)	TDS	TOC	Max. Permanent Hardness (max. CaCO ₃)	Free chlorine	Iron (Total Fe Content)	Fouling Index	Turbidity	pH Value	Input Pressure
°C	µS/cm	ppm	ppb	ppm	ppm	ppm	SDI	NTU		
2 ~ 30	< 500	< 250	< 2000	360	3	< 0.1	< 5	< 1	4 ~ 10	0.5 ~ 6.9 bar, Recommended > 2 bar

Specifications

	EXL® 5 Bio
Power	220~240VAC/ 50/60Hz (100W)
System Weight	37kg
System Dimension	375 (W) X 600 (D) X 600 (H) mm
Packing Dimension	500 (W) X 700 (D) X 800 (H) mm
Operation Temperature & Humidity Range	2~35 °C / Under 80% Relative Humidity
Storage Temperature & Humidity Range	5~35 °C / Under 80% Relative Humidity



Founded in 2003, Vivagen Co., Ltd. is the company which consists of experts who have more than 10 years of experience in sales, marketing and R&D.

Our products consist of self-developed Pure & Ultrapure integrated water system (EXL® Series), Gas control module for cell culture (EXL® Navigator), Transfection Reagent (VivaMagic), Taq Polymerase and Marker. The patent of Lab Water System is registered with Korean Intellectual Property Office in Oct. 2010. In 2016, we released new product, EXL®7.

Vivagen Co., Ltd. provides differentiated services to customers in various experiments such as filtration, purification, concentration, incubation and analysis.

We are sure our expertise and technical know-how help customers solve their complex problems and achieve their goals.

Ordering Information

Order No.	Description	Type
System		
EXL®5 Bio 16	EXL®5 Bio 16 Pure & Ultrapure Water System(w/UV lamp) & 20L Tank	III & I Grade
EXL®5 Bio 32	EXL®5 Bio 32 Pure & Ultrapure Water System(w/UV lamp) & 20L Tank	III & I Grade
Option		
LM-EXL-Printer	Printer for EXL5&7	
LM-EXL-POU	Piont of use gun Pure or Ultra Pure for EXL5&7	
LM-EXL-FW	Foot Switch EXL5&7	
LM-20Tank	20L Pressure Tank	
LM-30Tank	30L Pressure Tank	
LM-70Tank	70L Pressure Tank	
Consumables		
LM-HCT-PC	Pre Carbon Filter for EXL3&5 (4ea/pk)	
LM-HCT-RO	RO Membrane for EXL3&5	
LM-HCT-DI	DI Cartridge#1 & #2 for EXL3&5 (each 2ea/pk)	
LM-EXL-UV	UV Lamp for EXL3&5&7	
LM-HCT-UF	UF Membrane for EXL3&5	
LM-FINAL	0.2u Final filter for EXL3&5&7	
LM-HCT-1M	1um Pre filter for EXL3&5 (4ea/pk)	
LM-HCT-5M	5um Pre filter for EXL3&5 (4ea/pk)	



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