

**ibs | tecnomara**

Innovative Systeme für die Biotechnologie

ibs tecnomara GmbH  
Ruhberg 4 | 35463 Fernwald  
+49 (0) 6404 / 809 - 0  
info@tecnomara.de  
www.tecnomara.de

**AVIDITY™**  
SCIENCE

**GENO™ CL**

PURE WATER FOR THE  
CLINICAL LABORATORY





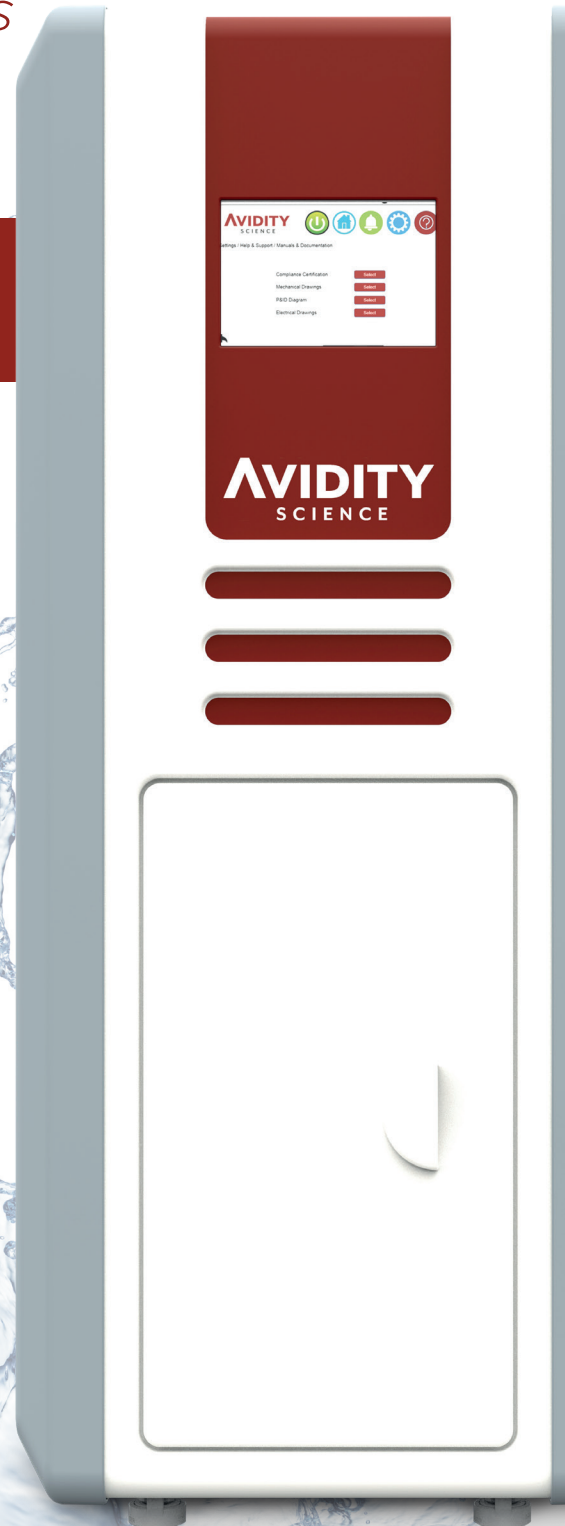
*Fully scalable water supply to meet the ever changing demands in your clinical laboratory*

## THE AVIDITY SCIENCE GENO™ CL SERIES

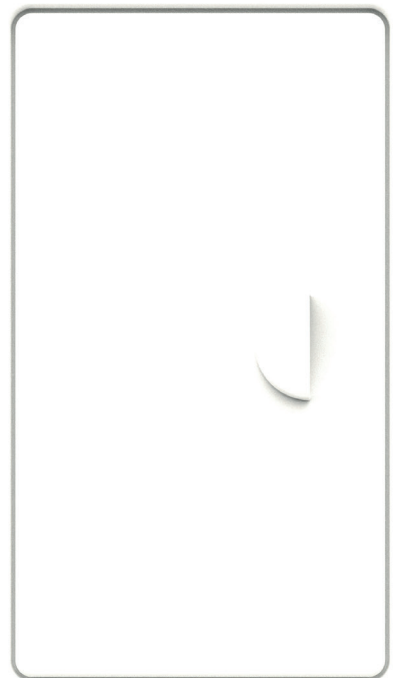
- **Continuous water supply**, for varying workflows, removing the stress from ongoing contingency planning
- **CLSI-CLRW compliant water**, maintaining accuracy and integrity of your results
- **Predictable running costs** for managed service contracts

The **GENO™ CL** utilises proven water purification technologies to produce CLRW grade purified water and sets a new standard for the supply of clinical analysers across the industry.

Featuring innovative twin stream water purification technology to provide the resilience required by modern clinical laboratories without the need for multiple water purification units, saving valuable space within your laboratory.



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# Rest assured, your water will flow with the flexible, intuitive GENO™ CL

## Flexibility and Scalability provided by unique Electrodeionisation-Cassette Technology (EDI-CT)

- EDI gives consistent quality with predictable running costs
- Each cassette holds an EDI cell and degasser
- A separate cassette holds the RO module and pump allowing the end user to increase capacity with growing demand

## A continuous water supply regardless of demand

- EDI-CT allows duplex production from one system, providing built-in contingency
- Each stream works independently, ensuring no single point of failure
- Cassettes can be independently replaced with minimal downtime and intervention

## Cloud based diagnostics and data logging

- Data logging via secure link to protected cloud storage
- Remote diagnostics via an Ethernet or 4G connection
- Common fault output for connection to Building Management System

## Easy to use icon based interface

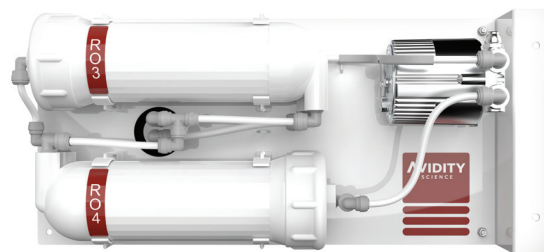
- 10" High Resolution Touchscreen
- Intuitive, pictorial settings, reducing language barriers
- Password protected interface
- Alarm warnings with a two stage, time and date stamp
- Consumable reminder with on screen video user guides

## SMART ASSISTANCE:

- + Easy to use on-site maintenance saving you valuable time and service callouts
- + Video tutorials easily accessed from 10" touchscreen
- + All main consumables located at front for ease of access



(EDI-CT Cassette)



(Easy to change RO Cassette)

	Message	Triggered	Cleared
0	Break Tank Low Level	29.07.2019 00:23:46	
1	Distribution Tank Low Level	29.07.2019 00:24:28	29.07.2019 00:27:34
2	Break Tank Low Level	29.07.2019 00:22:26	29.07.2019 00:23:35
3	EDI Quality Too Low	29.07.2019 00:20:10	29.07.2019 00:22:20
4	Distribution Tank Low Level	29.07.2019 00:20:15	29.07.2019 00:22:19
5	Break Tank Low Level	29.07.2019 00:20:22	29.07.2019 00:22:19
6	Distribution Tank Low Level	29.07.2019 00:15:46	29.07.2019 00:18:40
7	Break Tank Low Level	29.07.2019 00:10:24	29.07.2019 00:14:34
8	EDI Quality Too Low	29.07.2019 00:07:31	29.07.2019 00:07:38

(Touch Screen showing alarm interface)



# Technical Specifications

## SYSTEM CAPABILITIES

PRODUCT WATER SPECS	GENO™ 50 CL	GENO™ 100 CL / CLD	GENO™ 150 CLD	GENO™ 200 CLD
Makeup flowrate (L/hr) @ 20°C	50	100	150	200
Inorganics (MΩ-cm at 25°C)	>10	>10	>10	>10
Organics (TOC ppb)	<30	<30	<30	<30
Bacteria (CFU/mL)	<10	<10	<10	<10
Particles (at µm filter)	0.2	0.2	0.2	0.2
Silica (mg/L)	<0.05	<0.05	<0.05	<0.05
Delivery flowrate (L/min @ 1 bar)	7.5	7.5	7.5	7.5

## SYSTEM REQUIREMENTS

FEED WATER	GENO™ 50 CL & GENO™ 100 CL / CLD	GENO™ 150 CLD & GENO™ 200 CLD
Pressure (Bar)	1 to 6	1 to 6
Flow (L/hr)	190	380
Hardness as CaCO <sub>3</sub> (ppm)	<20	<20
Temperature (°C)	<25*	<25**
Conductivity*** (µS/cm)	10 to 2000	10 to 2000
Free Chlorine (ppm)	<0.2*	<0.2**
Carbon Dioxide*** (ppm)	<30	<30
pH	4 to 10	4 to 10

## UNIT SPECIFICATIONS

ALL MODELS	
Dimensions (HxWxD)	1852 x 750 x 600mm
Working Depth	800mm
Net Weight	182kg
Operating Weight	292kg
Maintenance Access	450 x 800mm
Power Supply	110 - 230V -, 50/60Hz; 1160W (max)

## CONSUMABLES & ACCESSORIES

PART NUMBER	DESCRIPTION	TYPICAL ANNUAL REQUIREMENT
TC003	UV Lamp	12 Months
TC005	Air Vent Filter	12 Months
TC041	EDI Cell 50 - 100L/h	As Required
TC042	RO Membrane	2 - 3 Years
TC043	20" Carbon Pre-filter	3 Months*
TC044	DI Cartridge	3 Months*
TC045	0.2µm Clamp	6 Months
TC046	Degasser Air Filter	6 Months
TC047	Degasser Membrane	2 - 3 Years

- \* Calculated at operation of 12 hours per day, filter change every 6 months
- \*\* Calculated at operation of 12 hours per day, filter change every 3 months
- \*\*\* FCE (Feed Conductivity Equivalent) means conductivity + (ppm CO<sub>2</sub> x 2.66) + (ppm SiO<sub>2</sub> X 1,94)

\* Depending on water consumption

