



**ELGA**

# THE LABORATORY WATER SPECIALISTS

## Quick Reference Product Guide



 **VEOLIA**  
WATER

Solutions & Technologies

We understand how important it is for scientists to obtain a choice of water qualities that range from primary grade, for simple routine washing and rinsing, through to ultra-pure for the most critical science and analytical applications.

We offer the widest range of water purification systems available and our commitment and heritage in purifying laboratory water ensures you can focus on obtaining accurate results for your research and testing applications.

PURELAB® Laboratory water systems

MEDICA® Diagnostics systems

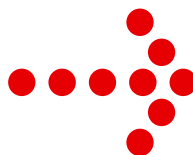
BIOPURE Healthcare systems

CENTRA® Centralized laboratory water systems

### **A commitment to excellence**

ELGA LabWater has installed thousands of systems worldwide.

- Ongoing research and development keeps the ELGA water purification systems at the forefront of technological innovation and delivers a high degree of future proofing
- A commitment to the highest quality control processes guarantees reliability and compliance with international, environmental, and user organization specific standards





## Worldwide service and support

Every ELGA water purification system comes complete with one essential extra feature – first class service and support wherever you are in the world. ELGA service engineers will apply their expertise to the installation, validation and maintenance of your water purification systems in compliance with all the relevant codes.

Visit [www.elgalabwater.com](http://www.elgalabwater.com) to find your nearest contact.

### Service Excellence

- We aim to provide a first time fix service level
- Preventative maintenance contracts are structured to match your precise needs, thereby minimizing interruptions to your workflow and sustaining system reliability
- All of our calibration equipment is maintained to traceable standards and operated by fully trained service technicians, ensuring your water quality is consistently maintained at the required standard

### Training

- “Hands on” operation training arranged on or off site to ensure optimal system performance and minimize the risk of an interrupted workflow

### Technical Assistance

- Our specialized local team will ensure you find the perfect product to match both your budget and applications
- Our dedicated local help desk is always available to provide advice, troubleshooting and parts identification

### Online Facility

- We offer a user-friendly “Ask the Expert” service and downloadable application information and maintenance planners
- Download:
  - Application information including water purity recommendations and system design advice
  - Consumable and maintenance planners to ensure optimum cost efficiency and performance

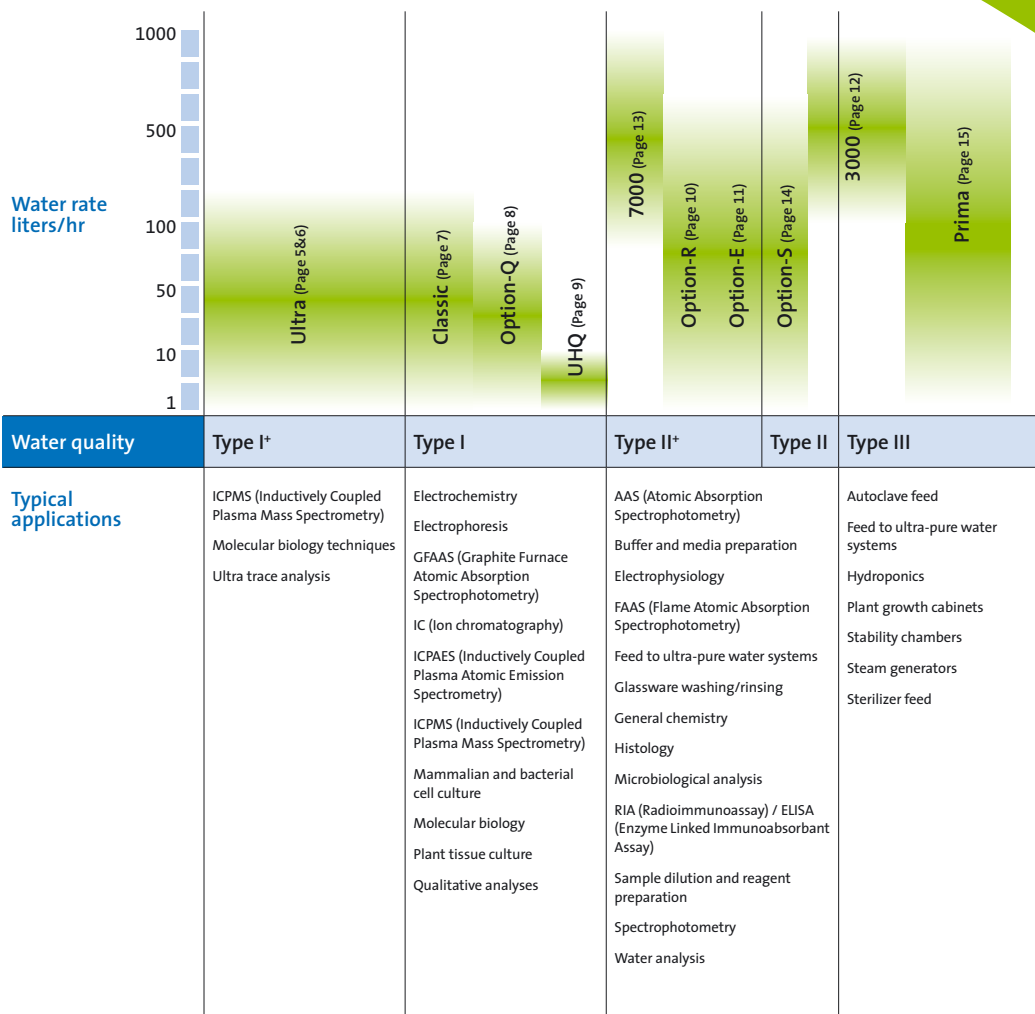


## PURELAB product finder

### Matching systems to applications supporting you all the way

Water purification is often a complex process that incorporates multiple technologies into a single purification system; therefore, we have developed the product finder to help you select the best water purification system suited to your application needs. Our team of technical and application specialists is always available to answer any questions, as well as providing friendly, expert advice in choosing the most suitable water purification system.





Type I+ water (Ultra-pure grade)

# PURELAB Ultra Analytic, Ionic & Scientific



PURELAB Ultra

- Choice of three ultra-pure water systems for analysis
- Purity beyond 18.2 MΩ-cm with unique PureSure system
- Unique Volumetric Profile Dispense facility for easy recording, replication and speedy dispensing of multiple set volumes
- Real time TOC monitoring on the PURELAB Ultra Analytic
- Full spectrum UV lamp for low microbial and organic specification on the PURELAB Ultra Analytic
- Labpure high capacity purification cartridges for longer life and lower running costs
- Sensitive electronic dispense offers accurate flow control from single droplets up to 2 liters/min
- Cartridge Identification technology provides **validatable traceability** and guarantees the quality of the cartridge

## Applications

HPLC	CF-AAS
GC-MS	TOC analysis
ICP-MS	IC
ICP-ES	Electrochemistry
AAS	Ultra-trace and trace inorganic and organic analysis

PURELAB Ultra Model	Analytic	Ionic	Scientific
Inorganics (resistivity @25°C)	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm
Organics (TOC) – typical	1 – 2 ppb <sup>1</sup>	3 – 10 ppb <sup>1</sup>	3 – 10 ppb <sup>1</sup>
Bacteria – typical	<0.1 CFU/ml <sup>2,3,4</sup>	<0.1 CFU/ml <sup>2,3,4</sup>	<1 CFU/ml <sup>2</sup>

Subject to correct operating and maintenance procedures <sup>1</sup>Dependent on feedwater – recommended feed <50 ppb TOC

<sup>2</sup> With point-of-use filter <sup>3</sup><1 CFU/ml achievable without point-of-use filter

<sup>4</sup>Based on measurement of <10 CFU in a 100ml sample



Type I+ water (Ultra-pure grade)

## PURELAB Ultra Genetic & Bioscience

- Choice of two top of the range systems for life science applications requiring ultra-pure water
- Purity beyond 18.2MΩ-cm with unique PureSure system
- Unique Volumetric Profile Dispense facility for easy recording, replication and speedy dispensing of multiple set volumes
- Real time TOC monitoring on the PURELAB Ultra Genetic
- Full spectrum UV lamp for low microbial and organic specification (PURELAB Genetic only)
- Labpure high capacity purification cartridges for longer life and lower running costs
- Sensitive electronic dispense offers accurate flow control from single droplets up to 2 liters/min
- Cartridge Identification technology provides **validatable traceability** and guarantees the quality of the cartridge



PURELAB Ultra

### Applications

Molecular biology	DNA sequencing
Microbiology	Mammalian cell culture
PCR	Cell and culture media preparation
Electrophoresis	Monoclonal antibody production

PURELAB Ultra Model	Genetic	Bioscience
Inorganics (resistivity @25°C)	18.2 MΩ-cm	18.2 MΩ-cm
Organics (TOC) – typical	1 – 3 ppb <sup>1</sup>	3 – 10 ppb <sup>1</sup>
Bacteria – typical	<0.1 CFU/ml <sup>2,3,4</sup>	<0.1 CFU/ml <sup>2,3,4</sup>
RNase and DNase	Removed	Removed
Endotoxin	<0.001 EU/ml	<0.001 EU/ml

Subject to correct operating and maintenance procedures <sup>1</sup> Dependent on feedwater – recommended feed <50 ppb TOC

<sup>2</sup> With point-of-use filter <sup>3</sup> <1 CFU/ml achievable without point-of-use filter

<sup>4</sup> Based on measurement of <10 CFU in a 100ml sample

# Type I water (Ultra-pure grade) PURELAB Classic



PURELAB Classic

- The best option for budget minded laboratories needing top quality water from a system without the enhanced operational features of ELGA's top of the range PURELAB Ultra purification systems
- Consistent supply of 18.2 MΩ-cm water, at flow-rates of up to 2 liters per minute
- Simplified water dispensing and operational ease of use
- Easy maintenance with direct access to consumables via user friendly service doors

## Applications

Critical reagent preparation	Atomic absorption spectrophotometry
Critical glassware washing	HPLC
Ion chromatography	TOC measurement
Electrophoresis	

PURELAB Classic Model	DI	UV	UF	UVF
Inorganics (resistivity @25°C)	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm
Organics (TOC) – typical	3 – 10 ppb	1 – 3 ppb	3 – 10 ppb	1 – 3 ppb
Bacteria – typical	<1 CFU/ml <sup>1</sup>	<0.1 CFU/ml <sup>1,2</sup>	<0.1 CFU/ml <sup>1,2</sup>	<0.1 CFU/ml <sup>1,2</sup>
RNase and DNase	–	–	Removed	Removed
Endotoxin	–	–	<0.001 EU/ml	<0.001 EU/ml

Subject to correct operating and maintenance procedures <sup>1</sup>with point-of-use filter

<sup>2</sup><1 CFU/ml without point-of use filter

## Type I water (Ultra-pure grade) PURELAB Option-Q



Optional ELGA Biofilter

- The cost-effective choice for laboratories requiring ultra-pure water direct from a potable supply at a make-up rate of 15 liters per hour
- Dispense flow-rates of up to 1 liter per minute of 18.2M $\Omega$ -cm water
- Recirculation of purified water through DV25 Docking Vessel or reservoir to maintain consistent peak water quality
- Optional ELGA Biofilter – when fitted to the Option-Q produces water which is free from biologically active impurities. This makes it suitable for use with applications which require endotoxin free ultra-pure water, bacteria free water, and nuclease free ultra-pure water



PURELAB Option-Q on DV25  
Docking Vessel

PURELAB Option-Q Model	7/15	When fitted with ELGA Biofilter
Inorganics (resistivity @25°C)	Up to 18.2 M $\Omega$ -cm	Up to 18.2 M $\Omega$ -cm
Organics (TOC) – typical	1 – 3 ppb	1 – 3 ppb
Bacteria – typical	<1 CFU/ml	<0.1 CFU/ml
Endotoxin	–	<0.001 EU/ml
RNase	–	<0.002 ng/ml
DNase	–	<20 pg/ml

Subject to correct operating and maintenance procedures

Type I water (Ultra-pure grade)

# PURELAB UHQ



PURELAB UHQ

- The PURELAB UHQ is a unique system, combining the most efficient water purification technologies in a single compact unit
- Ultra-pure water for lower volume applications using 5 to 15 liters per day dispensed at up to 0.75 liters per minute
- PURELAB UHQ-PS model operates on pre-purified feedwater
- PURELAB UHQ-II model operates on potable feedwater with no additional pre-treatment required

## Applications

Molecular biology

HPLC

ICP-MS

ICP-ES

Ion chromatography

Microbiological analysis

Tissue culture

Atomic absorption spectrophotometry

### PURELAB UHQ Model

Inorganics (resistivity @25°C)

Organics (TOC) – typical

Bacteria – typical

### UHQ II

18.2 MΩ-cm

<20 ppb

<1 CFU/ml

### UHQ PS

18.2 MΩ-cm

<20 ppb

<1 CFU/ml

Subject to correct operating and maintenance procedures

## Type II+ water (General laboratory grade)

# PURELAB Option-R

- The popular choice for everyday laboratory work, with flow rates from 7 to 60 liters per hour
- Multiple purification technologies (pretreatment, reverse osmosis, ion exchange, photooxidation and optional 0.2µm filtration) in combination with a recirculation feature producing high-quality general laboratory grade water of double distilled quality or better



PURELAB Option-R 7/15



PURELAB Option-R 30/60

### Applications

All the applications of the PURELAB Option-S plus:

Flame atomic absorption

Tissue and cell culture

Cytological and histology preparations

Protein electrophoresis

Spectrophotometry, water analysis and general purpose HPLC

Immuno-cytochemistry, electrophysiology and electrochemistry

#### PURELAB Option-R Model (l/hr)

Inorganics (resistivity @25°C)

**7/15**

10 – >15 MΩ-cm

**30/60**

5 – >15 MΩ-cm

Organics (TOC) – typical

<20 ppb

<20 ppb

Bacteria – typical

<1 CFU/ml

<1 CFU/ml

Subject to suitable feedwater and operating procedures

Type II+ water (General laboratory grade)

# PURELAB Option-E



- Features the unique ADEPT electrical deionization process; the cost-effective choice for laboratories that require higher output volumes especially in hard water areas
- Purifies water by a combination of technologies (pretreatment, reverse osmosis, ADEPT electrical deionization, photo-oxidation and, on the small models only, there is a recirculation feature and 0.2µm optional filtration) to provide better than double distilled quality from 5 to 80 liters per hour



PURELAB Option-E 5/10



PURELAB Option-E 25/50/80

## Applications

All the applications of the PURELAB Option-S plus:

Flame atomic absorption

Tissue culture and cell culture

Cytological and histology preparations

Spectrophotometry, water analysis and general purpose HPLC

Immuno-cytochemistry, electrophysiology and electrochemistry

### PURELAB Option-E Model (l/hr)

Inorganics (resistivity @25°C)<sup>1</sup>

Organics (TOC) – typical

Bacteria – typical<sup>2</sup>

**5/10**

10 – >15 MΩ-cm

<20 ppb

<1 CFU/ml

**25/50/80**

5 – >15 MΩ-cm

<20 ppb

<5 CFU/ml

<sup>1</sup>Optimum performance will be achieved with moderate use on moderate feedwaters. At high usage, (>100 l/day) and or high Total Conductivity/CO<sub>2</sub> feedwaters (>700 µS/cm, 20 ppm CO<sub>2</sub>) some reduction in resistivity may occur.

<sup>2</sup>Subject to correct operating and maintenance procedures and use of POU filter.



Type II and Type III water  
(Primary and general laboratory grade)

## PURELAB 3000



- High volume delivery of pure water for general laboratory use
- Flexible configuration provides easy upgradability of flow rates from 60 to 120 liters per hour or higher quality Type II pure water
- Minimal consumables ensure a low cost of ownership for the life of the system
- Auto rinse and simple sanitization procedures maintain the purity of the water
- Pure water can be used direct from the internal 50 liter reservoir or fed to much larger external reservoirs



PURELAB 3000

### Applications

Autoclave feed	Plant growth cabinets
Feed to ultra-pure water system	Stability chambers
Feed an external storage reservoir for use or distribution	Steam generators
Hydroponics	Sterilizer feed

PURELAB 3000 Model	3060	3120
Inorganics (resistivity @ 25°C)	>10 MΩ-cm <sup>1,2</sup>	>10 MΩ-cm <sup>1,2</sup>
TOC – typical	<100 ppb <sup>1</sup>	<100 ppb <sup>1</sup>
Particles	>99% Rejection <sup>1</sup>	>99% Rejection <sup>1</sup>

Specifications are for a system fed with a suitable water supply and installed, operated and sanitized according to the operator manuals. <sup>1</sup> Quality of water feeding the reservoir. Quality out of reservoir depends on use and design

<sup>2</sup> With optional deionization cartridge fitted.

Type II+ water (General laboratory grade)

# PURELAB 7000



PURELAB 7000

- High volume delivery of Type II water for multiple applications on a small distribution loop
- High flux RO, long-life deionization cartridges and UV photo-oxidation ensure the cost-effective production of consistent high quality water
- Space saving design – fits neatly under a bench
- Auto rinse and simple sanitization procedures maintain the purity of the water for the life of the system
- Pure water can be used direct from the internal 50 liter reservoir at varying flow rates or fed to much larger external reservoirs

## Applications

AAS (Atomic Absorption Spectrophotometry)	Histology
Buffer and media preparation	Microbiological analysis
Electrophysiology	RIA (Radioimmunoassay)/ELISA (Enzyme-linked immunosorbent assay)
Feed to ultra-pure water systems	Sample dilution and reagent preparation
General chemistry	Spectrophotometry
Glassware washing/rinsing	Water analysis

PURELAB 7000 Model	7060	7120
Inorganics (resistivity @ 25°C)	>15 MΩ-cm	>15 MΩ-cm
TOC – typical	<10 ppb	<10 ppb
Bacteria – typical	0.05 µm filtration	0.05 µm filtration

Specifications are for a system fed with a suitable water supply and installed, operated and sanitized according to the operator manuals.



## Type II water (General laboratory grade) PURELAB Option-S

- The ideal system for the busy laboratory, with flow rates from 7 to 60 liters per hour
- Multiple purification technologies (pretreatment, reverse osmosis and ion exchange) in combination produce general laboratory grade water of single distilled quality or better



PURELAB Option-S 7/15  
on Docking Vessel



PURELAB Option-S 30/60

### Applications

Glassware washing/rinsing  
 Feed to ultra-pure water systems  
 Reagent make-up/dilution, buffer and media preparation  
 General chemistry and qualitative analyses  
 Feed to environmental cabinets

PURELAB Option-S Model (l/hr)	7/15	30/60
Inorganics (resistivity @25°C)	1 – >10 MΩ-cm	1 – >15 MΩ-cm
Organics (TOC) – typical	<30 ppb	<50 ppb
Bacteria – typical	n/a	<1 CFU/ml

Subject to suitable feedwater and operating procedures

Type III water (Primary grade)

# PURELAB Prima



- PURELAB Prima systems purify water by reverse osmosis – ideal for general-purpose applications in the laboratory, and as a feed to other ELGA water purification systems
- A choice of models to suit your needs, providing from 7 to 120 liters per hour



PURELAB Prima 7/15/30  
on Docking Vessel



PURELAB Prima 30/60/90/120

## Applications

Feed to ultra-pure water systems, autoclaves, environmental cabinets and stills

Glassware washing

Hydroponics

Steam generators

### PURELAB Prima Model (l/hr)

Inorganics – typical

Organics (TOC) – typical<sup>1,2</sup>

Bacteria – typical<sup>1</sup>

### 7/15/30/60/90/120

Up to 98% rejection

<100 ppb

<5 CFU/ml

<sup>1</sup>Subject to correct operating and maintenance procedures <sup>2</sup>With suitable pretreatment, if required, depending on the feedwater



**MEDICA  
product  
finder**

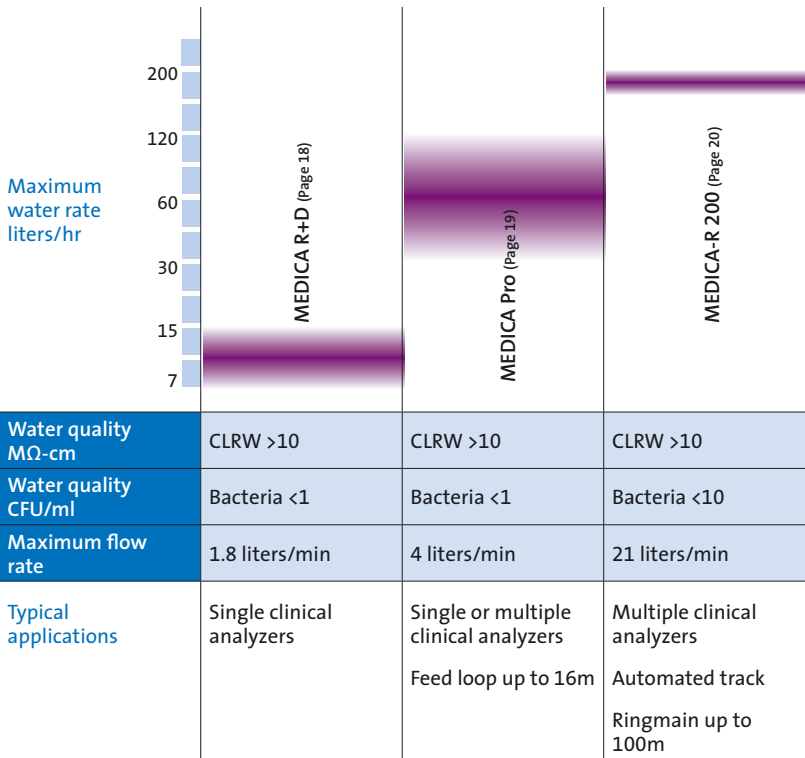
## Matching systems to clinical analysers

### Supporting you all the way

MEDICA systems are designed to provide water to clinical analyzers specified to Clinical Laboratory Reagent Water (CLRW) standard (formerly Clinical Laboratory Standards Institute Type 1). Whether you have access to tap or partially purified water, or need to feed analyzers on a small or large scale, ELGA has the system for you. To help you choose the system that is most suited to your clinical analyzer needs, we have developed the MEDICA product finder (see overleaf). Furthermore, our team of technical and application specialists are always available to answer any questions, as well as provide friendly, expert advice in choosing the most suitable water purification systems.



# MEDICA Product Finder



# MEDICA-S/R/D 7/15



- Designed to directly feed low volume clinical analyzers with up to 7 or 15 liters per hour (1.8 liters per minute) of CLRW grade (CLSI) water
- Recirculation of purified water on the MEDICA-R 7/15 ensures a consistent high quality with a low bacterial specification
- MEDICA-D features a membrane contactor to deliver a reduced dissolved oxygen specification required by some analyzers
- Audible and visual alarms guarantee water quality
- Dispense tap on the MEDICA-R enables you to additionally provide pure water on demand for general laboratory applications



MEDICA 7/15 on Docking Vessel

## Applications

Feed to clinical chemistry analyzers

Feed to immunodiagnostic analyzers

MEDICA Model (l/hr)	S 7/15	R 7/15	D 7/15
Inorganics (resistivity @25°C)	>10 MΩ-cm	>10 MΩ-cm	>10 MΩ-cm
Organics (TOC) – typical	<30 ppb	<30 ppb	<30 ppb
Bacteria – typical	<1 CFU/ml	<1 CFU/ml	<1 CFU/ml
Dissolved oxygen	n/a	n/a	6 – 8 ppm

Subject to correct operating and maintenance procedures

# MEDICA Pro-S/R/RE



MEDICA Pro

- Designed to directly feed individual or multiple clinical analyzers with up to 4 liters per minute of CLRW grade (CLSI) water
- High flux reverse osmosis with a make-up rate of 30, 60 or 120 liters per hour
- Low bacterial specification – UV and microfiltration technologies together with recirculation and a simple sanitization regime keep bacterial contamination below 1 CFU/ml
- Protek high capacity adsorption pretreatment cartridge avoids the need for external filters
- Medpure long life deionization cartridge reduces exchange frequency and running costs
- E-Cardrige on the MEDICA Pro-RE for the reduction of CO<sub>2</sub>

## Applications

Feed to clinical chemistry analyzers

Feed to immunodiagnostic analyzers

MEDICA Pro Model	Pro-30	Pro-60	Pro-120
Inorganics (resistivity @25°C)	>10 MΩ-cm	>10 MΩ-cm	>10 MΩ-cm
Organics (TOC) – typical	<30 ppb	<30 ppb	<30 ppb
Bacteria – typical	<1 CFU/ml	<1 CFU/ml	<1 CFU/ml

Subject to correct operating and maintenance procedures

- Designed to supply up to 200 liters per hour of CLRW grade (CLSI) water to higher volume or multiple clinical analyzers on a loop
- The first system to incorporate multiple technologies in a compact system box with a recirculation rate of 18 liters per minute
- Incorporates a wide range of safety features and alarms to ensure pure water quality is never compromised
- Plug and play connections make the MEDICA-R 200 very quick and easy to install



MEDICA-R 200

## Applications

Feed to clinical chemistry analyzers

Feed to immunodiagnostic analyzers

### MEDICA Model (l/hr)

Inorganics (resistivity @25°C)

Organics (TOC) – typical

Bacteria – typical

### R 200

>10 MΩ-cm

<30 ppb<sup>1</sup>

<10 CFU/ml

Subject to correct operating and maintenance procedures <sup>1</sup>With ion-exchange cylinder installed (Nuclear or Hypex grade resin).



BIOPURE 60/120



BIOPURE 200/300/600

- Designed to meet the very latest medical standards – pr EN15883, HTM2030, NHS MES c32 and MDA/HIS
- 3 models available to feed a wide range of endoscope reprocessors, washer disinfectors and bench-top autoclaves
- Incorporates an automatic/validated self-disinfection routine which is easy to use and maintain by hospital staff
- High efficiency reverse osmosis membrane with a make-up rates of 7 to 600 liters per hour
- Ultra-violet sterilizer for continual bacteria destruction and maintenance of low microbiological levels



BIOPURE 7/15

## Applications

For washer disinfectors, endoscope reprocessors and autoclaves

BIOPURE Model (l/hr)	7/15	60/120	200/300/600
Inorganics (resistivity @25°C)	<1 µS/cm	<30 µS/cm <sup>1</sup>	<30 µS/cm <sup>1</sup>
Bacteria – typical	<1 CFU/10 ml <sup>2</sup>	<1 CFU/10 ml <sup>2</sup>	<1 CFU/10 ml <sup>2</sup>
Endotoxin	<0.25 EU/ml	<0.25 EU/ml	<0.25 EU/ml

Subject to correct operating and maintenance procedure <sup>1</sup>Subject to a maximum feedwater TDS of 500ppm. <sup>2</sup>System to be regularly disinfected and installed following ELGA installation design guidelines. Sample to be taken from hygienic sample valve and sampled in accordance with ELGA guidelines.



## CENTRA-R 60/120

- Complete water purification, storage, control and distribution systems delivering up to 120 liters per hour of pure water to a distribution loop system
- Compact design means that the system can be placed close to work areas, avoiding the negative cost and design implications of unnecessarily long pipe work
- Reliable, continual supply of pure water using unique access controls, leak detection systems and full AV alarms with optional building management system (BMS) connectivity
- Optimized water purity through use of in-line UV oxidation, deionization and 0.2 µm filtration
- Fast and easy sanitization ensures that optimum purity is maintained throughout the life of the product



CENTRA-R 60/120

CENTRA Model	R 60	R 120
Make-up rate @ 15°C	60 l/hr	120 l/hr
Delivery flowrate	10 l/min @ 22psi (1.5bar)	10 l/min @ 22psi (1.5bar)
Inorganics (resistivity @ 25°C)	>5 MΩ-cm	>5 MΩ-cm
TOC – typical	<30 ppb <sup>1</sup>	<30 ppb <sup>1</sup>
Bacteria – typical	<1 CFU/1ml <sup>1</sup>	<1 CFU/1ml <sup>1</sup>
Particles	0.2 µm filter	0.2 µm filter

<sup>1</sup>Specifications for CENTRA fitted with UV and optional deionization cartridge and microfilter.

Without the deionization cartridge the CENTRA will provide RO, permeate-grade III water with greater than 95% rejection of organics. TVC levels will typically be less than 5 CFU/ml and TOC less than 100 ppb. With the microfilter TVC will fall typically to less than 1 CFU/ml and there will be particle removal to 0.2 µm. Specifications are for a system fed with a suitable water supply and installed, operated and sanitized according to the operator manuals.

# CENTRA MDS, LDS, RDS



MDS 200 Liters



LDS/RDS 350 Liters

- Centralized distribution systems designed to enhance existing water purification systems such as the PURELAB Prima; storing, controlling and distributing prepurified water throughout a building via a loop
- Incorporates an array of system operations, monitors and alarms to improve the management of your loop system
- Standard CENTRA systems deliver a loop flowrate of up to 18 liters per minute. Additionally the CENTRA LDS and RDS are available as high flow variable speed models, (HFV) capable of delivering up to 30 liters per minute

Standard CENTRA Model	MDS	LDS	RDS
Loop Flow rate	Up to 18 liters per minute		
High Flow CENTRA Model	N/a	LDS-HFV	RDS-HFV
Typical Loop Flow Rate	N/a	Variable speeds, up to a maximum of 30 liters per minute <sup>1</sup>	
Reservoir Capacity	200 liters	350 liters	350 liters
Recirculation Pump	√	√	√
UV Photo-oxidation			√
0.2µm Filter			√
Optional Deionization			√

## Product Water Specifications

The performance specifications given below are intended only as a guide.

Inorganics (resistivity @ 25°C)	As per feed	From feed quality up to 18.2 MΩ-cm <sup>3</sup>
TOC – typical	As per feed	From feed quality up to <10 ppb <sup>3</sup>
Bacteria – typical <sup>2</sup>	As per feed	<5 CFU/ml <sup>2</sup>

Subject to suitable operation, maintenance and sanitization <sup>1</sup>Subject to the distribution loop design

<sup>2</sup>Subject to correct operating and maintenance procedures <sup>3</sup>Subject to use of suitable deionization cylinder

## CENTRA-S 200, R 200



- Centralized purification and distribution systems capable of supplying pure water to one or more laboratories on a loop system
- Both models feature a 200 liters per hour reverse osmosis module. The CENTRA-R additionally includes UV photo-oxidation and a feed to and from a deionization cylinder
- Incorporates a wide range of safety features and alarms to ensure pure water quality is never compromised
- Standard CENTRA systems deliver a loop flowrate of up to 18 liters per minute. Additionally the CENTRA-S 200 and R 200 are available as high flow variable speed models, (HFV) capable of delivering up to 30 liters per minute
- Compatible with building management systems



CENTRA-S/R

Standard CENTRA Model	S 200	R 200
Loop Flow rate	Up to 18 liters per minute	Up to 18 liters per minute
High Flow CENTRA Model	S 200-HFV	R 200-HFV
Typical Loop Flow Rate	Variable speeds, up to a maximum of 30 liters per minute <sup>1</sup>	
Reservoir Capacity	350 liters	350 liters
Recirculation Pump	√	√
Reverse Osmosis	√	√
UV Photo-oxidation		√
0.2µm Filter	√	√
Optional Deionization		√

## Product Water Specifications

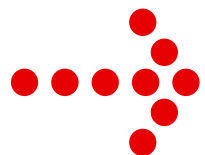
The performance specifications given below are intended only as a guide. Each system can be individually specified to meet your particular requirements.

Inorganics (resistivity @ 25°C)	RO permeate	Up to >18.2 MΩ-cm <sup>3</sup>
TOC – typical	<100 ppb <sup>4</sup>	<10 ppb <sup>3</sup>
Bacteria – typical <sup>2</sup>	<50 CFU/ml <sup>2</sup>	<5 CFU/ml <sup>2</sup>

# Validation Support Service

## A cost-effective and streamlined service to help you meet the very latest regulatory guidelines

ELGA provides a validation support service for all of its PURELAB, MEDICA, CENTRA and BIOPURE water purification systems. The service brings together in one documented process all the pre and post installation testing required to demonstrate that a system meets user requirements and international standards.



# Validation Support Service



## Comprehensive Validation Support Manual

All documentation and certificates are integrated into one easy-to-use validation support manual that provides a smooth step-by-step progression through the validation support process to guarantee successful qualification. Its principal sections include:

- **Pre-validation (Factory Acceptance Test)** – ELGA uniquely provides detailed documentation of all quality control and calibration testing prior to a system leaving our manufacturing facility. This innovative approach reduces the testing required on site and guarantees quality while reducing the cost of on-site compliance
- **Installation Qualification (IQ)** – provides documentary evidence to demonstrate that your ELGA system is installed in accordance with specifications
- **Operational Qualification (OQ)** – provides documentary evidence to demonstrate that your ELGA system operates in accordance with the system design criteria
- **Performance Qualification (PQ)** – provides documentary evidence to demonstrate that your ELGA system can continually meet your water quality requirements
- **Standards and Certificates** – includes certificates of conformity and calibration generated during manufacturing and the quality control process

## Annual Requalification Pack

Our annual requalification service is designed to provide the highest level of validation support for the lifetime of your water purification system. It provides assurance that your system is continuing to meet user requirements and is still providing the same high quality water as it did when installed.

The service includes:

- Installation Qualification (IQ)
- Operational Qualification (OQ)

## Contact us:

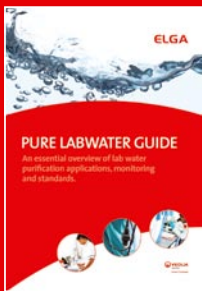
ELGA offices and distributors are located in more than 60 countries and are fully trained in all ELGA systems. To find your nearest ELGA representative, go to [www.elgalabwater.com](http://www.elgalabwater.com) and select your country for contact details.

### ELGA Global Operations Centre

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## Free Pure LabWater Guide

Our Pure LabWater Guide is a must for anybody who uses pure water or wishes to learn more about the subject. This unique guide provides an educational overview of water purification techniques and applications in the laboratory. To receive your FREE copy, go online at [www.elgalabwater.com](http://www.elgalabwater.com)

## The LabWater Specialists

Our commitment to purifying laboratory water ensures you can focus on obtaining accurate results for your research and testing applications.

ELGA is an integral part of Veolia, the world's leading environment and water service company. Veolia Water has a worldwide team of 70,000 people, and is renowned for its capabilities in providing water solutions of any size to customers throughout the entire water cycle. The ELGA team focuses exclusively on water and its treatment, and continually contributes to the unique technical and scientific applications expertise developed during the past 50 years. We are experienced in meeting the challenges that arise during the development, installation and servicing of single point-of-use water purification systems as well as large projects involving consultation with architects, consultants and clients.



The Veolia Environment Foundation supports worldwide projects contributing to sustainable development, with a special focus on outreach, workforce development and the environment.

Since 2004, with an annual budget of €5 million, the Foundation has supported more than 450 projects. (see [www.fondation.veolia.com](http://www.fondation.veolia.com) for details)