



PURELAB® Prima

Primary Grade
Water Purification Systems

PURELAB Prima

The simple and dependable choice for primary grade water

The PURELAB Prima range from ELGA produces primary grade purified water from a potable source in a wide range of volumes for laboratory, medical and industrial applications. Using proven reverse osmosis (RO) technology, the PURELAB Prima is ideal for feeding ultra-pure water systems and for typical laboratory applications including glassware washing, a feed to autoclaves, and for use in environmental cabinets.

DESIGNED TO SUIT YOUR EXACT NEEDS

PURELAB Prima systems are compact in size and are available in a choice of flow rates to meet your specific needs. The smaller units provide flow rates of 7, 15 or 20 liters per hour whilst the larger units deliver 30, 60, 90 or 120 liters per hour. Sophisticated microprocessor monitoring helps ensure optimum performance at all times – and you can rely on easy, cost-effective and convenient operation, with user-friendly controls, informative status displays, and simple maintenance routines.

USER-FRIENDLY AND INFORMATIVE MONITORING

The PURELAB Prima range has been designed to give you full system control. All models continuously monitor and display water quality and operational parameters, with adjustable audio-visual alarms and consumable change reminders to ensure trouble-free operation. The comprehensive status displays allow you to check temperature-compensated conductivity, water temperature and production mode at a glance.

Additionally, PURELAB Prima 7/15/20 models feature a unique state-of-the-art GRID* control panel showing graphical illustrations of the operational mode, process flow path and reservoir water level, further simplifying the monitoring of information. They also incorporate an RS232 port so that you can make a permanent record of water quality and system parameters – essential for compliance with Good Laboratory Practice (GLP) guidelines.

*Graphically Represented Intuitive Display

THE PURELAB PRIMA RANGE							
Model	7	15	20	30	60	90	120
Water Quality	Up to 98% rejection of inorganics; > 99% rejection of organics ¹ & bacteria ² ; TOC typically <0.1ppm ³						
Flow Rates² (15°C)	7 L/hr	15 L/hr	20 L/hr	30 L/hr	60 L/hr	90 L/hr	120 L/hr
Purification Technologies	Pre-treatment media to remove chlorine and gross particulate contamination, with enhanced bacteriostatic operation Reverse osmosis						
Typical Applications	Feed to ultra-pure water systems, autoclaves, environmental cabinets and stills Glassware washing Steam generators Hydroponics						

¹ MW > 100 Dalton ² Subject to correct operating and maintenance procedures ³ Subject to suitable feedwater

EASE-OF-USE AND LOW MAINTENANCE

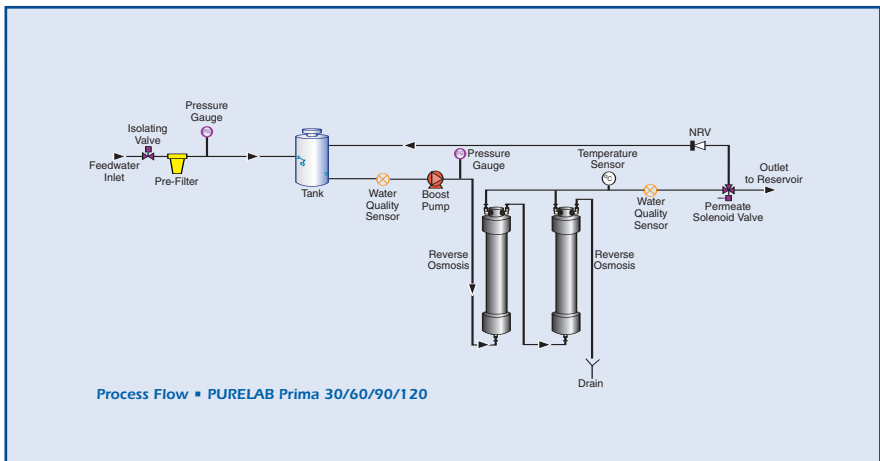
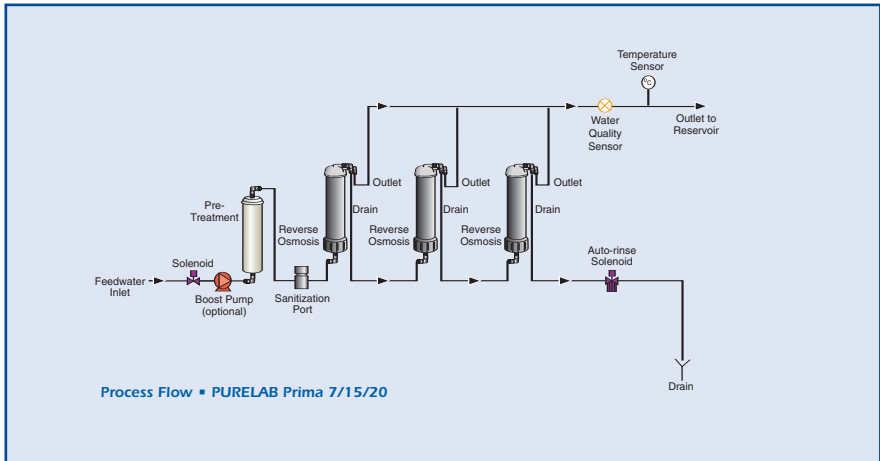
Simple operation is a key element of the PURELAB Prima design. Each system features a large easy-to-use back-lit control panel with intuitive icons and a menu-driven system to guide you. Front-entry service doors enable you to quickly and easily replace consumables, whilst a simple sanitization regime helps maintain peak system performance. The PURELAB Prima utilizes an integral bacteriostatic pre-filter cartridge to remove chlorine and gross particulate contamination. No softener is required.



TAILORED TO YOUR WATER SUPPLY

The PURELAB Prima product family can operate from a wide range of potable water pressures. For PURELAB Prima 7, 15 and 20 units, an optional integral boost pump can be specified where pressure is insufficient. PURELAB Prima 30, 60, 90 and 120 units have this boost pump built in as a standard feature.

TECHNOLOGICALLY ADVANCED DESIGN



PURELAB PRIMA
AT A GLANCE

- **Microprocessor-controlled system management with continuous water purity monitoring** – for consistent and reliable operation
- **Unique GRID (Graphically Represented Intuitive Display) Control Panel** featuring user-friendly icons and simulation of operational mode, process flow path and reservoir water level – for enhanced system control (smaller models only)
- **Front-entry service doors** – for easy and convenient replacement of consumables
- **Very latest RO technology** – high flux, thin-film composite, non-cellulose membranes maximize system efficiency
- **Cartridge change indicator** – to ensure optimal purification performance
- **Audio-visual alarms with adjustable settings** – for total peace of mind
- **Simple sanitization regime** – for optimizing system performance
- **Data collection capabilities through RS232 interface** – for compliance with GLP guidelines (smaller models only)
- **Auto-rinse facility** – to maintain the life of the RO membrane and to ensure peak water quality
- **Choice of flow rates with the facility to upgrade** – designed to match your current and future needs
- **Comprehensive range of accessories** – for added flexibility and convenience



EASY UPGRADEABILITY

Flexibility is a key benefit of the PURELAB Prima range. A wide choice of flow rates is available to meet your current needs, with the potential to upgrade should you need higher volume to keep pace with future requirements.

WIDE CHOICE OF OPTIONS

For greater convenience there is a choice of bench, under-bench and wall mounting options to suit the layout of your laboratory or site. A broad range of optional accessories is also available to further complement PURELAB Prima systems, including a remote display, printer kit, boost pump and a full range of water storage reservoirs.

TECHNICAL SPECIFICATIONS

PURELAB Prima model	7/15/20	30/60/90/120
Performance Specifications		
Inorganics – min	> 90% rejection	> 90% rejection
Inorganics – typical	up to 98% rejection	up to 98% rejection
Organics¹	> 99% rejection	> 99% rejection
TOC – typical²	< 50 ppb	< 50 ppb
Bacteria³	< 5 CFU/ml	< 5 CFU/ml
Particles	> 99% rejection	> 99% rejection
Product Specifications		
Dimensions	Height: 460mm Width: 410mm Depth: 270mm	Height: 740mm Width: 570mm Depth: 320mm
Weight (standard models)	PURELAB Prima 7: 11.5kg PURELAB Prima 15: 12.5kg PURELAB Prima 20: 13.0kg	PURELAB Prima 30: 46.0kg PURELAB Prima 60: 47.0kg PURELAB Prima 90: 48.0kg PURELAB Prima 120: 54.0kg
Operational Mode	Power on	Power on
Displays	Process on Standby Auto-rinse	Process on Standby Auto-rinse Disinfection
Safety Features	Power fail-safe Automatic level controls Audio-visual alarm warnings Auto-restart	Power fail-safe Automatic level controls Audio-visual alarm warnings Auto-restart Low feed pressure shut-off
System Monitoring	RO permeate purity (µS/cm) RO permeate temperature (°C) Reservoir level – % full Consumable remaining life indicator	Feedwater quality (µS/cm) RO permeate purity (µS/cm) RO permeate temperature (°C) % Ion rejection Consumable change reminder
Feedwater Specifications		
Source	Potable water	Potable water
Maximum FI	10	10
Maximum Conductivity	1400 µS/cm	1400 µS/cm
Free Chlorine	<0.5 ppm	<0.5 ppm
Temperature	1-35°C	1-35°C
Pressure Maximum		
• without boost pump	6 bar (90 psi)	n/a
• with boost pump	2 bar (30 psi)	6 bar (90 psi)
Pressure Minimum		
• without boost pump	4 bar (60 psi)	n/a
• with boost pump	flooded suction	1 bar (20 psi)

¹ MW > 100 Dalton ² With suitable pretreatment, if required, depending on the feedwater ³ Subject to correct operating and maintenance procedures

THE SINGLE SOURCE SOLUTION

PURELAB Prima systems are part of the complete range of ELGA water purification systems designed to meet the pure water requirements of today's laboratories.

From glassware washing to molecular biology, every ELGA system has been carefully designed to give you uncompromising water quality in a cost-effective, convenient, and easy to use package.

With a network of over 600 service centers worldwide, ELGA provides an unrivalled package of service and support for its range of pure water

systems. Whatever support you require, ELGA's team of water treatment experts will respond quickly to ensure your total satisfaction with our products and services, guaranteed.

With our wide range of technologies, products and services, we can provide the right solution tailored to your own specific pure water needs.

Contact us today for further information on the water purification systems featured in this brochure or for details on other models in the range.



Contact your nearest ELGA LabWater representative at:

**GLOBAL OPERATIONS CENTER
ELGA**

Tel +44 1494 887 500
Fax +44 1494 887 505

**NORTH AMERICA
USFILTER**

Customer Service
800 466 7873
Technical Support
800 875 7873 Ext 5000

AUSTRALIA

Tel +61 3 9263 4300
Fax +61 3 9562 9840

AUSTRIA

Tel +43 2236 506003
Fax +43 2236 50600322

BRAZIL

Tel +55 11 4617 4388
Fax +55 11 4617 4388

CHINA

Tel +86 10 8453 8595
Fax +86 10 8453 8571

DENMARK

Tel +45 43451676
Fax +45 43453524

FINLAND

Tel +358 9 4770 9032
Fax +358 9 4770 9010

FRANCE

Tel +33 1 40 83 65 00
Fax +33 1 40 83 64 50

GERMANY

Tel +49 5141 803 0
Fax +49 5141 803 385

IRELAND

Tel +353 1 630 3333
Fax +353 1 630 3344

MEXICO

Tel +52 5366 6300
Fax +52 5366 6368

NETHERLANDS

Tel +31 318 691 500
Fax +31 318 691 501

SPAIN

Tel +34 91 660 4000
Fax +34 91 666 7716

UAE

Tel +971 6 5570703
Fax +971 6 5570704

UK

Tel +44 1494 887 866
Fax +44 1494 887 837

Visit our website at www.elgalabwater.com E-mail us on info@elgalabwater.com

Owing to a policy of continual improvement, we reserve the right to amend the specifications given in this brochure.

ELGA® is the global laboratory water brand name of Veolia Water.