

PRIMARY GRADE WATER



USFilter

PURELAB® PRIMA

PRIMARY GRADE

WATER PURIFICATION SYSTEMS

THE PURELAB® PRIMA

DESIGNED TO SUIT
YOUR EXACT NEEDS

The ELGA PURELAB Prima range 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, feed to autoclaves, and for use in environmental cabinets. 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 while the larger units deliver 30, 60, 90 or 120 liters per hour.

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.

* 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						
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

EASE-OF-USE AND
LOW MAINTENANCE

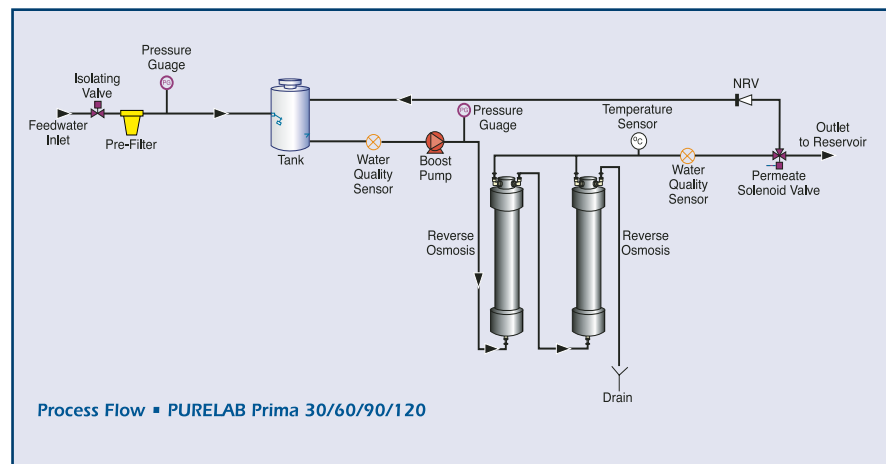
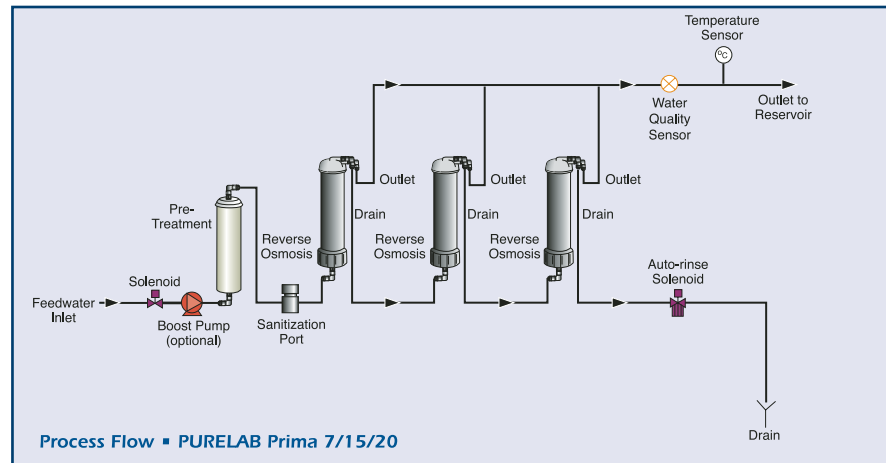


TAILORED TO YOUR
WATER SUPPLY

TECHNOLOGICALLY
ADVANCED DESIGN

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, while 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.

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.



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 – typical	< 0.1 ppm	< 0.1 ppm	
Bacteria²	< 5 CFU/ml	< 5 CFU/ml	
Particles	> 99% rejection	> 99% rejection	
Product Specifications			
Dimensions	Height:	18.11in	
	Width:	16.14in	
	Depth:	8.3in	
Weight (standard models)	PURELAB Prima 7:	25.35 lbs	
	PURELAB Prima 15:	27.56 lbs	
	PURELAB Prima 20:	28.66 lbs	
	PURELAB Prima 30:	101.4lbs	
Operational Mode Displays	PURELAB Prima 60:	103.6lbs	
	PURELAB Prima 90:	105.8lbs	
	PURELAB Prima 120:	119lbs	
	Power on	Power on	
	Process on	Process on	
Safety Features	Standby	Standby	
	Auto-rinse	Auto-rinse	
	Disinfection	Disinfection	
	Power fail-safe	Power fail-safe	
	Automatic level controls	Automatic level controls	
System Monitoring	Audio-visual alarm warnings	Audio-visual alarm warnings	
	Auto-restart	Auto-restart	
	Low operating voltage 24V	Low feed pressure shut-off	
	RO permeate purity (µS/cm)	Feedwater quality (µS/cm)	
	RO permeate temperature (°C)	RO permeate purity (µS/cm)	
Feedwater Specifications	Reservoir level – % full	RO permeate temperature (°C)	
	Pretreatment cartridge life indicator	% Ion rejection	
	Consumable change reminder	Consumable change reminder	
	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 (34–95°F)	1–35°C (34–95°F)	
Pressure Maximum	• without boost pump	6 bar (90 psi)	
	• with boost pump	2 bar (30 psi)	
Pressure Minimum	• without boost pump	4 bar (60 psi)	
	• with boost pump	flooded suction	

¹MW > 100 Dalton

²Subject to correct operating and maintenance procedures

- **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



PRIMARY GRADE WATER



THE SINGLE SOURCE SOLUTION

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

From glassware washing to molecular biology, every PURELAB 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 80 service centers throughout the U.S. and Canada, USFilter provides an unrivaled package of service and support for its

range of pure water systems. Whatever support you require, USFilter'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.

USFilter

Customer & Technical Service Network

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