

Technical Specification

Avidity Science PURO™ Water System

Reverse Osmosis Water



The Puro™ water system produces high-quality water with low energy consumption through the use of innovative low energy RO technology. By using a specially designed recirculation system, the RO membranes are guaranteed a long service life.

Manufactured to ISO 9001:2015 standard. Certified to IEC 61010-1:2010 and EN 61326-21:2013

FEATURES & BENEFITS

KEY FEATURES

- Up to 50% water recovery rate
- Low running costs
- One easy-change pre-filter
- Mount on bench, wall or on top of a reservoir
- Intuitive, icon-based, interactive user interface with touchscreen
- Integrated leak detector and boost pump
- Choice of storage reservoir size

PRODUCT WATER QUALITY

TYPE 3

MODEL	RO MAKE UP RATE (@15°C)	INORGANICS REJECTION RATE**	RO QUALITY (@25°C)	DISPENSE RATE (@15°C FROM TANK)*
PURO10	10L/hr	98%	<40µS/cm	3 - 7L/min
PURO20	20L/hr	98%	<40µS/cm	3 - 7L/min
PURO50	50L/hr	98%	<40µS/cm	3 - 7L/min
PURO80	80L/hr	98%	<40µS/cm	3 - 7L/min

* Depending on tank and pump setup

** Depending on feedwater impurities

SYSTEM REQUIREMENTS

FEED WATER

Pressure	Bar	0.1 - 6
Conductivity	µS/cm	<1400
Temperature	°C	4 - 30
Hardness as CaCO ₃ (ppm)	ppm	<400
Free Chlorine	ppm	<2
Colloid Index	SDI	<3
pH Value		4 - 10
Iron (Total Fe)	ppm	<0.1

UNIT SPECIFICATIONS

ALL MODELS

Dimensions (HxWxD)	500 x 490 x 290mm
Installed Weight	23kg
Power Supply	100 - 240V ~; 50/60Hz; 3.0A (max)
Power Supply Output	24VDC, 5.0A, 120W (max)
Operating Temperature	4°C - 35°C (max)
Storage Temperature	4°C - 35°C (max)



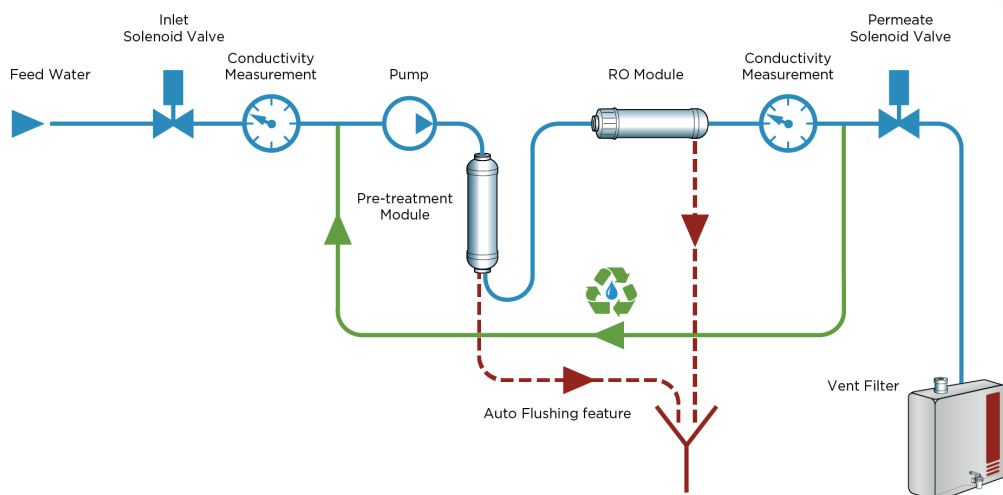
Technical Specification

Avidity Science PURO™ Water System

Reverse Osmosis Water



PURO™ FLOW CHART



UTILITIES & SERVICES

REQUIREMENTS

Water Supply	Isolated cold-water feed
Drain Type	Sink/Tundish/Standard up-stand with suitable trap
Drain Flow	> 3L/min

CONSUMABLES & ACCESSORIES

PART NUMBER	DESCRIPTION	TYPICAL ANNUAL REQUIREMENT
TC001	Pre-treatment Module	2
TC005	Tank Vent Filter	1
TANK30	30 Litre Tank	-
TANK60	60 Litre Tank	-
TANK100	100 Litre Tank	-
TANK100P-1	100 Litre Tank with Pump - 230V	-
TANK100P-2	100 Litre Tank with Pump - 110V	-
AV004	Valve Kit for Washing Machine Feed (Single POU)	-
AV006	Wall Mounting Kit	-
AV007	External Pre-filter Housing Kit (Excludes Filter)	-
AV016	Valve Kit for Washing Machine Feed (Double POU)	-

TYPE 3 WATER

APPLICATIONS

- Autoclave feed
- Glasswasher feed
- Feed to Ultrapure Water Systems
- Hydroponics
- Steam Generators

