

Performance Data Sheet

LINX[®] 160 and LCM 160
Drinking Water Systems

with LINX Technology

and Dial-a-Taste[®] Mineral Level Control



LINX 160 and LCM 160 systems are certified by WQA against NSF/ANSI Standard 53 as verified and substantiated by test data for the reduction of nitrate/nitrite



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System Features

The LINX 160 and LCM 160 drinking water systems employ an ion exchange process which uses electricity rather than chemicals for operation. LINX technology does not release chemicals to the environment and it conserves water compared to other drinking water systems that provide similar water quality.

LINX technology provides several important benefits:

- High flow rates: up to 0.75 gallons/minute (gpm)
- Wastes 90% less water than reverse osmosis drinking water systems under typical usage conditions.
- The Dial-a-Taste control allows adjustment of product water mineral level for optimum taste.

The LINX 160 and LCM 160 drinking water systems include:

- One LINX 120 Sediment pre-filter
- One LINX 50 TDS cartridge to reduce nitrate/nitrite contaminants for improved health and total dissolved solids (TDS) for better taste.
- One LINX 120 Carbon (GAC) post-filter.
- Space for an optional third LINX 120 filter (eg. a second carbon filter)
- Operation on either 110-120VAC or 220-240VAC, with a simple connector change
- An internal leak sensor and shut-off valve
- An optional external leak sensor for monitoring remote leaks in other locations

For availability and cost to replace these items, please contact Pionetics Corporation at (650) 551-0250, or www.LINXwater.com. Refer to the Owner's Manual for installation and maintenance requirements, user responsibility, parts and service availability, performance indicator functions, and manufacturer's limited warranty.

Specification:

Feed Water Quality:	Potable water with maximum TDS of 1000 ppm, <20 grains of hardness (340 ppm hardness as CaCO ₃), pH 4 – 10; microbiologically safe
Feed Water Pressure:	20-80 psi (130-550 kPa)
Feed Water and Operating Temperature:	33-100°F (1-40°C)
Regeneration:	30 minutes
TDS Rejection (Maximum Dial)*:	≥85% TDS reduction
Flow Rate to Faucet (from Tank)*:	0.75 gpm (2.7 liters/minute), maximum
Water Output Volume per Cycle:	0-400 ppm TDS feed: 1.5 gallons (6.0 liters) per 30 min regen cycle 401-1000 ppm TDS feed: 1.0 gallons (4.0 liters) per 30 min regen cycle
Rated Service Flow Rate:	0.06 gpm (0.20 liters/minute; to the tank)
Rated Capacity:	1.5 gallon/cycle (6.0 liters/cycle) – pre-regeneration capacity
Rated Life:	650 gallons (2500 liters) for all replaceable components: LINX 50 TDS cartridge, LINX 120 Sediment filter, and LINX 120 Carbon filter
Warranted Water Output per Day:	≤25 gallons (100 liters; if product exceeds 25 gallons per day on average, the warranty is no longer valid)
Water Recovery*:	0-400 ppm TDS feed: 70%; 401-1000 ppm TDS feed: 61%
Operating Voltage, Current:	110-120 VAC, 2.0 A; or 220-240VAC, 1.0 A; 50/60 Hz
Outside Dimensions:	13 in (330 mm; depth) x 6.6 in (168 mm; width) x 14 in (356 mm; height)

*Based on Manufacturer's test data

Safety Precautions

- The LINX 160 system is designed to cycle 400 or 600 times to produce 650 gallons on the 0-400 ppm or 401-1000 ppm TDS settings, respectively, before needing to replace LINX 50 TDS cartridges and LINX 120 filters. The exact number of cycles for optimal replacement is dependent on the actual water composition in your area. The performance indicator light will alert you when 650 gallons of water have passed through the unit, which is the tested filter life expectancy under laboratory conditions.

Under normal use conditions of 1.7 liters of water per person-day for a household of 4 people, the filter replacement expectancy is once per year.

- The LINX 160 system is certified for reduction of nitrate and nitrite. Nitrate test strips to confirm performance at any time can be purchased from Hach Corporation, product number 2745425; (see www.hach.com).
- The LINX 160 and LCM 160 products must be installed, serviced and maintained by an authorized dealer to assure that they comply with state and local laws and regulations. A Supplement for Installation and Maintenance Manual is available for dealers.
- Read and follow all instructions carefully before using these LINX products.
- DO NOT open the cell lids or outer enclosure when the LINX products are powered. There is a risk of electrical shock.
- If the detachable power cord is damaged it must be replaced with a certified power cord.
- Use with cold water feed ONLY (33-100°F; 1-40°C), and install in the upright position only.
- DO NOT use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- These LINX products are designed to operate with supply water pressure in the range of 20-80 psi (130-550 kPa). If the pressure exceeds 80 psi (550 kPa), a pressure regulator must be additionally installed.
- These products are not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Systems must be served by a GFCI outlet in Wisconsin.
- Grounding Instructions: These products must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electrical current. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.

Warning: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you are in doubt whether the appliance is properly grounded. Do not modify the plug provided with the appliance; if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Specific Contaminant Reduction^(1,2,3,4)

Contaminant	Maximum Allowable Concentration (mg/L)	Influent (ave. mg/L)	Effluent (ave. mg/L)	Influent Challenge Concentration mg/L)	Minimum Percent Reduction
Nitrate + Nitrite	10	34	0.1	30 ± 10%	99.7%
Nitrate	10	30	0.1	27 ± 10%	99.7%
Nitrite	1.0	4.0	0.1	3 ± 10%	97.6%

- (1) Contaminant reduction testing was performed at the minimum Dial-a-Taste setting (power setting), providing the minimum percent reduction of contaminant. When operated at a higher Dial-a-Taste setting, contaminant reduction will be greater. Testing was performed under standard laboratory conditions. Actual performance may vary based on water quality.
- (2) This system was tested according to NSF/ANSI 53 reduction of the substance listed above. The concentration of the indicated substance in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 53.
- (3) Note: LINX products' performance depends upon the periodic replacement of the LINX 50 TDS cartridges, LINX 120 sediment filter, and LINX 120 carbon filter as described in the Owner's Manual.
- (4) Average concentrations are the arithmetic mean of all reported influent or effluent concentrations (the detection limit value shall be used for any non-detectable concentrations). The percent reduction shall be calculated from the arithmetic mean of the influent and effluent concentrations.

California Seal here

For Iowa Use Only

Please sign and date below as proof that the performance data sheet was reviewed prior to purchase:

_____	_____	_____
Buyer	Date	Model
_____	_____	
Seller	Date	

Seller must retain this signed form for 2 years in the place of business.