



# Culligan®

## *Culligan® Commercial Reverse Osmosis Water Systems*

*assisted living facilities*

*cafeterias*

*casinos*

*corporate campuses*

*educational facilities*

*food service*

*grocery*

*hotel/hospitality*

*institutions*

*laundry*

*theme parks*

*vehicle wash*



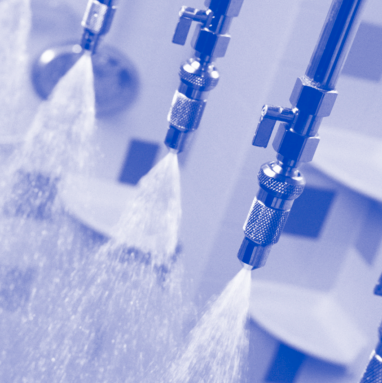
## **Culligan's Series LC Reverse Osmosis Water System** The Light Commercial Water Treatment Solution

### **Standard Features**

- Self contained and compact for wall mounting installation.
- Thin Film Composite RO membranes—rejects significant amounts of dissolved minerals, as well as colloids, particles, organics and silica\*
- Exclusive quick change membrane housings constructed of aluminum and lined with polyethylene for corrosion resistance.
- Hydraulic operation does not require electricity.
- Automatic Shut-off valve—to save water when the optional pressure storage tank is full.
- Cartridge prefiltration—with replaceable element to remove suspended particles (5 microns) to extend component life. Includes integral pressure relief valve.
- Waste Restrictor—A fixed flow restrictor maintains the proper recovery ratio of product-to-feed water flow.

\*Do not use on water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after system.

*Trust The Water Experts®*



# Culligan's LC Light Commercial RO System

## Applications and Benefits

- Food & Beverage—Superior taste and increased cost savings.
- Ice Production/Drinking Water—Reduces scaling; improves taste and clarity.
- Restaurants—Improves steamer operation.
- Humidification—Reduces scaling and dusting.
- Grocery Stores—Prevents scaling in vegetable misters.
- Horticulture—Reduces leaf spotting and mineral build up in potting soils.
- Water Jet Cutting—Improves operating efficiency; extends orifice life.

## Options

- Booster Pump Kit—To increase feed pressure by ~40 PSI. Includes pump, transformer, pressure switch and solenoid valve.
- TDS Monitor—"Press to test" indicator. Green light for good quality, red light for poor quality. Adjustable sensitivity via dipswitch selection. Battery operated.
- Granular Activated Carbon—prefiltration to reduce chlorine and organics.
- Product Water Storage Tanks

## Warranty

Culligan's Series LC Reverse Osmosis Systems are backed by a one year limited warranty against defects in material and workmanship. See printed warranty for details. Culligan will provide a copy of the warranty upon request.

## System Specifications

Inlet Pressure (dynamic) <sup>1</sup> :	60–120 psig 414–828 kPa
Temperature:	33–100°F 1 - 38°C
Turbidity, max.:	1.0 NTU
ph Range:	5-10
Free Chlorine <sup>3</sup> :	<0.1 ppm
Chloramine, max. <sup>4</sup> :	3 mg/L
Total Dissolved Solids, max. <sup>2</sup> :	2500 mg/L
Silt Density Index, max.:	3.0
Langlier Saturation Index, max.:	0.0
Iron, max.:	1.0 mg/L
Approximate Operating Wt.:	10-15 lbs.

Model	Features					
	Design <sup>5</sup> Recovery %	Automatic shut-off valve	5 micron prefilter	GAC prefilter	100 gpd* RO cartridge	200 gpd* RO cartridge
LC-1PC	30%	✓	✓	✓	✓	
LC-2PC		✓	✓	✓		✓

\*Approximate nominal capacity based on properly pretreated feed water of 600 ppm TDS as NaCl, 77° F, Silt Density Index below 3.0, and 60 psi applied pressure supplying water to atmosphere. Productivity will vary depending on the feed water conditions.

- 1 For units with inlet pressure lower than 50 psig a booster pump is recommended.
- 2 Where TDS exceeds 600 PPM (600mg/L) and the pressure less than 60 psig, a booster pump is recommended.
- 3 The reverse osmosis membrane used in this system will be damaged by chlorine. If your water supply contains chlorine, units with activated carbon filters must be used. Consult your local dealer about your chlorine content and filter capacity. For LC-1PC or LC-2PC units, influent chlorine should not exceed 3 mg/L.
- 4 The reverse osmosis membrane used in this system is chloramine tolerant. However, chloramines can produce free chlorine, which can damage the reverse osmosis membrane. When free chlorine is present, dechlorination (activated carbon filtration) is recommended.
- 5 Actual recovery will depend on feed water source, SDI, temperature and product back pressure.

“Hey Culligan Man!®”



www.culligan.com™

1-800-CULLIGAN

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# Series LC

## Reverse Osmosis Systems

### Specifications and Operating Data

Models	Nominal Capacity <sup>1</sup>	Module Qty & Size	Approx. Recovery <sup>2</sup>	Motor <sup>3</sup>	Power Req'd	Pipe Size			Dimensions			Approx. Ship. Weight
	gpd	in.	%	HP	VAC	Feed (Tube)	Product (Tube)	Waste (Tube)	Width	Depth	Height	lb
	L/day	mm	%	KW	VAC	in.	in.	in.	cm	cm	cm	kg
LC-1PC	100	1, 2.5 x 13	30	N/A	N/A	3/8	3/8	1/4	22	5	19	18
	378.5	1, 63.5 x 330	30	N/A	N/A	3/8	3/8	1/4	56	13	48	8
LC-2PC	200	1, 2.6 x 14	30	N/A	N/A	3/8	3/8	1/4	22	5	19	19
	757	1, 66 x 356	30	N/A	N/A	3/8	3/8	1/4	56	13	48	9

<sup>1</sup> Nominal initial capacity based on properly pretreated feed water of 600 ppm TDS, temperature of 77° F (25° C), Silt Density Index below 3.0 and an applied pressure of 60 psi. Productivity will vary depending on other feed water conditions.

<sup>2</sup> Depending on feed water quality, it may be possible to operate any unit at a higher recovery to reduce operating costs.

<sup>3</sup> Optional booster pump available.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised.



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LIMITED

# WARRANTY

## COMMERCIAL/INDUSTRIAL REVERSE OSMOSIS SYSTEMS

You have just purchased one of the finest reverse osmosis water conditioning units made. As an expression of our confidence in Culligan products, your reverse osmosis water conditioning unit is warranted to the original end-user, when installed in accordance with Culligan International Company specifications, against defects in material and workmanship from the date of original installation, as follows:

**For a period of ONE YEAR**

**The entire reverse osmosis conditioning unit, including the reverse osmosis modules, but excluding the expendable filter cartridges used in this unit.**

If a part described above becomes defective, within the specified period, you should notify your independently operated Culligan dealer and arrange a time during normal business hours for the dealer to inspect the reverse osmosis unit on your premises. Any part found defective within the terms of this warranty will be repaired or replaced by the dealer. You pay only freight from our factory and local dealer charges.

Of course, damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty.

Our product performance specifications are furnished with each water conditioning unit. TO THE EXTENT PERMITTED BY LAW, CULLIGAN DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE; TO THE EXTENT REQUIRED BY LAW, ANY SUCH IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE ONE-YEAR PERIOD SPECIFIED ABOVE FOR THE PARTS DESCRIBED IN THIS LIMITED WARRANTY. As manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a water conditioner. Please understand that the quality of water supplies may vary seasonally or over a period of time, and that your water usage rate may vary as well. Water characteristics can also change considerably if your water conditioner is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product on a non-potable water source. OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE WATER CONDITIONER, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES, WHETHER FROM CORROSION OR OTHER CAUSES.

### CONSUMERS:

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Consult your telephone directory for your local independently-operated Culligan dealer, or write Culligan International Company, for warranty and service information.

**CULLIGAN INTERNATIONAL COMPANY  
One Culligan Parkway  
Northbrook, Illinois 60062**



PROVIDE A DRAIN CAPABLE OF AT LEAST  
0.5 GALLONS PER MINUTE. DO NOT MAKE A DIRECT  
CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP  
OF AT LEAST 4 TIMES THE DIAMETER OF THE  
DRAIN TUBING TO CONFORM TO SANITATION CODES  
AND TO PERMIT THE OBSERVATION OF THE DRAIN FLOW.  
DO NOT INSTALL A VALVE IN THE DRAIN LINE.



DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED					<div>Culligan®</div> <div>ENGINEERED SYSTEMS</div> <div>NORTHBROOK, ILLINOIS</div> <div>PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.</div>	NAME SERIES LC-1PC/LC-2PC REVERSE OSMOSIS UNIT TECHNICAL DATA SHEET			
Let.	Change	By	App	Date		DETAILED BY: KMR 5/17/02		APP. BY:	SHEET 1 OF 1
					REF. NO.	PART NO. RO_LCPC			