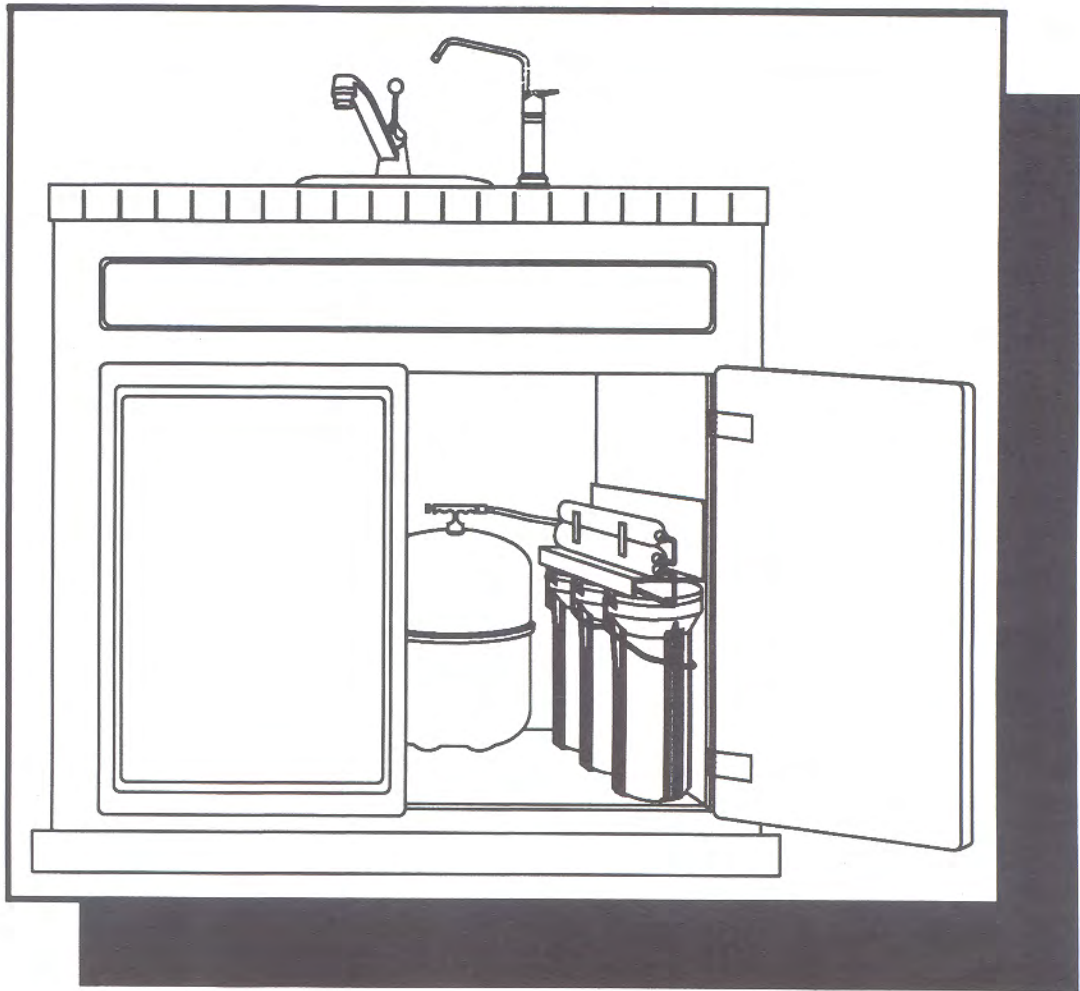


**Nimbus Water Systems
Installation Guide**

**The Nimbus
CS-3**



Congratulations on your choice of the Nimbus model CS-3 Drinking Water System. The Model CS-3 is from a family of fine Nimbus Water Systems products which utilize the principal of Reverse Osmosis to provide you with the finest point-of-use water treatment systems available on the market today.

Operating Parameters

To achieve maximum performance, the Model CS-3 Drinking Water System should be used to treat feed water that conforms to the following specifications:

Feed Water (tap water): Potable water supplies. (Microbiologically safe)

Pressure: 40 to 100 psi

Temperature: CA membrane - 32°F to 95°F.
TFM® membrane - 32°F to 120°F.

Total Dissolved Solids (TDS): CA membrane - up to 1000 parts per million, with decreasing efficiency up to 1500 parts per million.
TFM® membrane - up to 2000 parts per million.

pH: CA membrane - 3.0 to 8.0.
TFM® membrane - 3.0 to 11.0.

Chlorine: CA membrane - 0.2 to 1.0 PPM.
TFM® membrane - 0.0 PPM.

NOTE: All installations should be done in compliance with all applicable state and local laws and regulations.

Check the following list of components to ensure that all parts are included:

Desalinator/filter assembly

Storage tank/tank valve assembly

Designer Series Faucet assembly

Drain assembly

Feed water assembly

Parts Bag:

2 shut off tags

1 grommet cone

3 1/4" plastic nuts

1 3/8" plastic nut

5 1/4" plastic inserts

3 3/8" plastic inserts

2 wood screws

8' of 1/4" tubing

6' of 3/8" tubing

The next step in installing your new CS-3 is to determine the appropriate location to place the three major components of the system: storage tank, desalinator/filter assembly and faucet. Two requirements to keep in mind, are access to the feed water and access to the drain system. The most common and useful place is in the area of the kitchen sink:

Faucet - may be installed on any 2" flat surface. The main considerations are convenience of use and open area below faucet for connection of the drinking water line.

Storage Tank - may be placed in any convenient space within a 5 foot radius of the desalinator/filter assembly and faucet if the supplied tubing is to be used. Some installations may require a remote location of the tank in which case the installer should have additional tubing available.

Desalinator/Filter Assembly - This location is generally under the kitchen sink. If another location is desired, additional 1/4" tubing will be required.

Note: Remote location of either the tank or the desalinator/filter assembly should be no more than 15 feet away from the faucet.

Tools required for typical installations:

Flat head screw driver

Small Phillips head screw driver

Sharp knife or tube cutter

Adjustable wrench

Channel lock pliers

Electric drill

*1 1/4" hole saw

*Hole saw adapter

*1 5/8" porcelain cutter (for enameled sinks)

*1 1/4" chassis punch (for stainless steel sinks)

*1/4" drill bit

1/8" high speed drill bit

7/16" high speed drill bit

Center punch

*Available in the Nimbus Water Systems Sink Drilling Kit.

NOTE: Nimbus Water Systems has incorporated a sanitizing capsule (patent pending) within the CS-3 system. The capsule is activated when the system is turned on after installation. This will allow for complete sanitizing of the system and tubing at the installation site.

If you choose to take advantage of the sanitizing capsule features of the CS-3 disregard the following instructions for pre-installation preparation and continue on to "Drilling the Faucet Hole" (page 4).

Instructions for activating the system will also activate the sanitizing capsules. Please follow the "Self Sanitizing System Activation" instructions on page 9.

If you prefer to do system prep in the "traditional" manner please follow the instructions below.

Desalinator/Filter Assembly Preparation

During the assembly process, the desalinator was exposed to a disinfection process. Therefore, it must be rinsed thoroughly prior to placement into service.

1. Connect the desalinator filter assembly to a potable water feed line with the 1/4" fitting marked feed on the pre-filter assembly. Connect a 1/4" brine line to the 1/4" fitting at the brine end of the desalinator. Turn the water on and allow to flow for a minimum of 4 hours.
2. Concurrently connect a second potable water feed line to the 1/4" fitting marked faucet on the post-filter. Connect an appropriate length of 3/8" tubing to the filter unit tank connection to direct water to drain. Turn on water and rinse carbon for at least 10 minutes at a moderate flow rate of about 1 gallon per minute. This will backflush the carbon to remove carbon fines.

Desalinator Performance Check

Once the desalinator has been thoroughly rinsed, performance should be checked by collection of data and comparison against system specifications. To accomplish the performance checks a conductivity meter, milliliter graduate cylinder, and thermometer will be needed. Additionally the feed water TDS and pressure should be measured.

1. Collect sufficient product water to measure the total dissolved solids (TDS) with the conductivity meter. Using the following formula determine the percent of rejection. Rejection should be 90% or better:

Feed TDS - Product TDS

$$\frac{\text{Feed TDS} - \text{Product TDS}}{\text{Feed TDS}} \times 100 = \% \text{ rejection}$$

Example: $600 - 20 = 580$, $\frac{580}{600} = .96$,

$.96 \times 100 = 96\% \text{ rejection}$

2. Collect product water for one minute and measure the quantity in milliliters. To convert the milliliters per minute to gallons per day (GPD) use the following formula and then compare the results to product specifications.

$$\text{ML/Min} \times .381 = \text{GPD}$$

Example: $20 \times .381 = 7.62 \text{ GPD}$

3. In comparing the results obtained in 1 and 2 above keep in mind the product specifications are calculated at feed water line pressure of 60 pounds per square inch (psi), temperature of 75°F, and 1,000 parts per million (PPM) of sodium chloride. When one of these factors vary results will be different requiring the use of a Production Flow Rate Chart to determine what flows are at the specification standards. The Flow Rate Charts

for the Nimbus model CS-3 are found in Appendix A.

4. To verify the brine to product ratio, collect brine water for one minute and measure in milliliters. Compare to the product water measurement in milliliters. The system will perform efficiently within the range of 4:1 to 8:1.

Storage Tank Preparation

1. The tank is pre-charged at the factory with 5 PSI air. This charge can be verified by removing the protective cap from the side of the tank to check the air charge with an appropriate gauge at the air valve. Increase pressure, if necessary, by using a hand pump or an air compressor. Air pressure should be measured with the tank empty.

2. It is essential that the storage tank be properly sanitized to insure product water is stored in the best possible condition. For your convenience the tank comes assembled with the sanitizing agent included in the tank. Fill the tank with R/O product water. Allow the water to stay in the tank for a minimum of 8 hours before installation. After installation it is important to empty the tank to remove any residual from the sanitizing agent. No additional sanitizing of the tank is necessary.

IMPORTANT: For your convenience the tank comes factory prepped with a sanitizing agent. Tank must be emptied after it is filled for the first time. This agent, though harmless, can produce an unpleasant taste in the product water.

Measuring Feed Water Pressure

Measuring feed water pressure is a simple, yet very important procedure. The specifications call for a minimum operating pressure of 40

PSI and a maximum of 100 PSI for safety. Excessive pressure can be dealt with effectively by installing an in-line regulator in the feed line. Should pressures below 40 PSI be encountered, a low pressure pump driven system may be necessary.

All that is needed to measure feed water pressure is a pressure gauge with a range of 0-150 PSI with an appropriate fitting(s) for connection to the existing cold water source. The common locations for a convenient cold water source are: outside hose bib, clothes washer cold water supply, existing ice maker line and some kitchen faucets.

Wherever you decide to measure the feed water pressure, be sure the location is downstream of any existing pressure regulator which may be in the main line entering the house. Also when optional locations exist, choose the one closest to the location of the drinking water system installation.

Drilling the Faucet Hole

In addition to common hand tools, the following tools will be required for drilling through the most common sink materials.

- *1 1/4" Hole Saw
- *Hole Saw Adapter
- *1 5/8" Porcelain Cutter
- *1 1/4" Chassis Punch
- 1/8" High Speed Drill Bit
- 7/16" High Speed Drill Bit
- *1/4" Drill Bit
- Center Punch

Special care should be taken when drilling the faucet hole. A clean hole can be made in a short period of time, but any attempt to rush the process can cause poor results. On some sinks there may be a ridge on the underside of the sink. Avoid these ridges or any obstruc-

*Available in the Nimbus Water Systems Sink Drilling Kit.

tions to insure adequate flat surface for installation of the faucet.

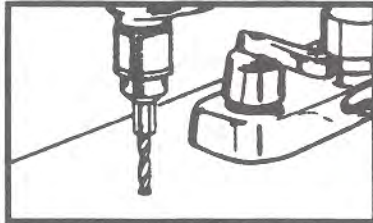
Formica or Wooden Counter:

1. Drill 1 1/4" hole with hole saw or flat (spade) wood bit.
2. Clean off sawdust.

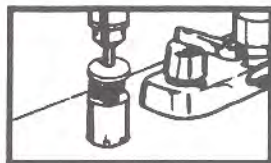
Enamel or Porcelain over Steel, or Cast Iron Sink:

1. With drill motor in hand place 1/4" masonry drill bit at center of selected faucet location. Before starting rotation firmly apply downward pressure until a slight crunching sound is heard.

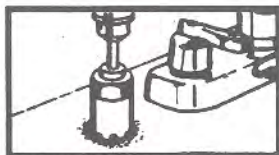
This will fracture a small area of the enamel/porcelain and prevent the bit from "walking".



2. Drill the 1/4" pilot hole.
3. With the pilot hole as the guide, use a 1 5/8" porcelain cutter to cut through the porcelain/enamel only. Stop the drill when the cutter reaches the metal underlayer.



4. Once again using the pilot hole as a guide, use the 1 1/4" hole saw to drill through the metal. (The hole saw is slightly smaller than the porcelain cutter so the teeth of the saw will never touch the enamel/porcelain material to prevent chipping).



CAUTION - DO NOT BOTTOM OUT THE DRILL ON THE CERAMIC SURFACE.

5. Clean off the sink, and wipe dry the hole. Be sure all metal chips are removed, as metal chips on porcelain stain very quickly.

Tile Sink or Counter:

1. Follow procedure 1 through 3 from Enamel/Porcelain procedures.
2. With the gentle use of the center punch and hammer, break up the ceramic disk to the extent necessary to remove it. Remove the ceramic disk.
3. Use the 1 1/4" hole saw or wood drill to continue the hole through the wooden support.
4. Clean the debris.

Stainless Steel Sink:

1. Use a center punch and hammer to mark the sink surface for drilling.
2. Drill starter hole with a 1/8" high speed drill bit.
3. Enlarge the starter hole with a 7/16" high speed drill bit.
4. Make a 1 1/4" faucet hole with the chassis punch by placing the male cutter of the chassis punch under the 7/16" pilot hole, insert driving bolt through female die and pilot hole into the male die. Tighten the driving bolt to cut the faucet hole.



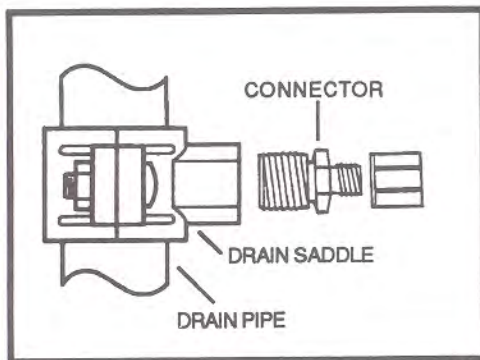
5. Use a round file to dress up any rough edges and clean up any filings, ensuring that

none get into sink drain or disposal.

NOTE: When performing installations that call for locating the faucet on the counter instead of the sink, insure that adequate underneath space is available to accommodate the faucet sub-assembly.

Drain Assembly Installation

1. Position drain saddle on drain pipe between the "P" or "S" trap and the sink. If possible, orient the hole to be drilled toward the desired location of the drinking water faucet. Installation should be as far away as practical from garbage disposal. If there is a double sink install drain assembly on the sink drain opposite the disposal. A vertical pipe is most suitable.
2. Tighten saddle bolts evenly on both sides. Avoid over tightening. Using the opening in the drain outlet saddle as a guide, drill 1/4" hole in the drain pipe.

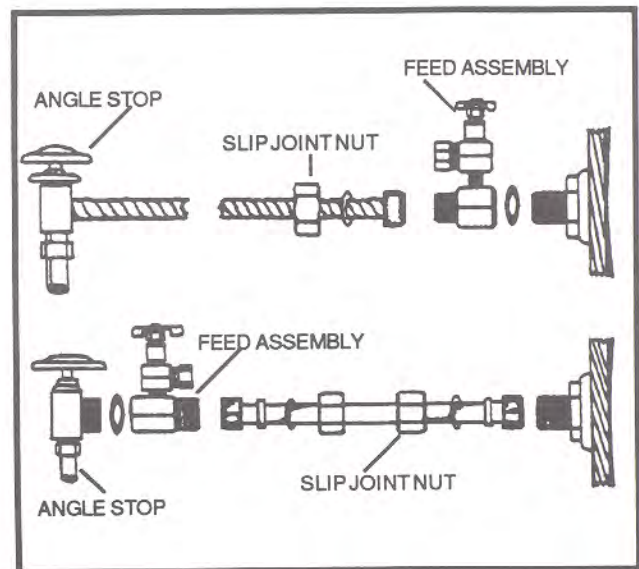


3. Apply teflon tape to the pipe thread and screw the connector into the threaded opening in the saddle and hand tighten until snug. Then tighten one full turn with adjustable wrench.

Providing A Feed Water Source

Standard Feed Water Assembly:

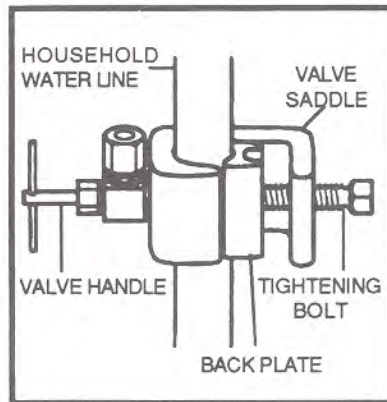
1. Locate and turn off the angle stop valve on the cold water line that you have selected to supply water to the system. **DO NOT INSTALL TAP WATER FEED ASSEMBLY ON A HOT WATER LINE.**
2. Relieve water line pressure by opening cold water faucet.
3. Determine the most convenient location to attach the tap water feed assembly and disconnect the cold water line by unscrewing the slip joint nut at that point.
4. Screw the tap water feed adapter into place using the provided flat washer.
5. Replace the existing cone washer with the new one provided and connect the cold water line to the tap water feed assembly with the existing slip joint nut. Note: If the cold water line is rigid tubing, 3/4" to 1" of tubing must be removed for the tap water feed assembly to be installed.
6. Open cold water angle stop valve. Check for leaks and tighten fittings if necessary.



Self Tapping Feed Valve:

1. Locate and turn off cold water angle stop valve. On single lever mixing valve type faucets it may be necessary to close the hot water valve also.

2. Turn the valve handle on the system feed valve assembly counter clockwise so the piercing needle is fully retracted.



3. Attach saddle to water line. The loose back plate is reversible for use with either 3/8" or 1/2" pipe. On 1/2" line, the loose back plate must be slipped into place from the top or bottom after saddle is in place.

4. Hand tighten bolt and then tighten another 1/4 turn with a wrench. Be careful not to over-tighten and "crush" the piping.

5. Turn valve handle clockwise fully to pierce the water line and close the valve.

6. Turn on cold water angle stop valve and check assembly for leaks.

Mounting the Desalinator/Filter Assembly

The desalinator filter assembly may be mounted on a convenient cabinet wall under the sink by using wood screws and the slotted holes in the assembly back plate. Be sure to leave enough space on each side and below the assembly so that the tubing connections are not restricted and so that the filter housings may be unscrewed for filter replacement.

Note: If desired, the assembly may be placed on the cabinet floor without attachment to the wall.

Faucet Installation

1. Insert spout assembly with o-ring into the top hole of faucet body and hand-tighten the top nut.

NOTE: O-Ring does not go into the hole. A seal is formed between top nut and flat surface of faucet body.

2. Insert faucet with black rubber gasket into sink hole.

3. From under the sink slip the white plastic washer over the faucet stem and air-gap tubes.

4. While holding the faucet stem, thread the mounting nut over the air-gap tubes onto the stem.

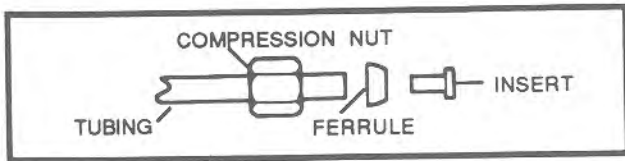
5. Reposition the faucet to the desired handle orientation and securely hand tighten the mounting nut.

Tubing Connections

1. Connect 1/4" tubing to the faucet nipple utilizing a jaco nut and plastic insert. Tubing should be of sufficient length to reach the faucet connection on the post-filter.

2. Connect the free end of the 1/4" tubing from the faucet to the faucet connection on the post-filter using a jaco nut and plastic insert.

3. Connect another length of 1/4" tubing to the feed water supply valve using a compression nut, ferrule and insert as shown below. Tubing should be of sufficient length to reach the feed water inlet on the pre-filter.



4. Connect the free end of the 1/4" tubing from the feed water supply to the feed inlet on the pre-filter using a jaco nut and plastic insert.

5. Connect a 3/8" length of tubing to the tank valve using a jaco nut and plastic insert.

6. Connect the free end of the tank tubing to the tank connection on the R/O system, using a jaco nut and plastic insert.

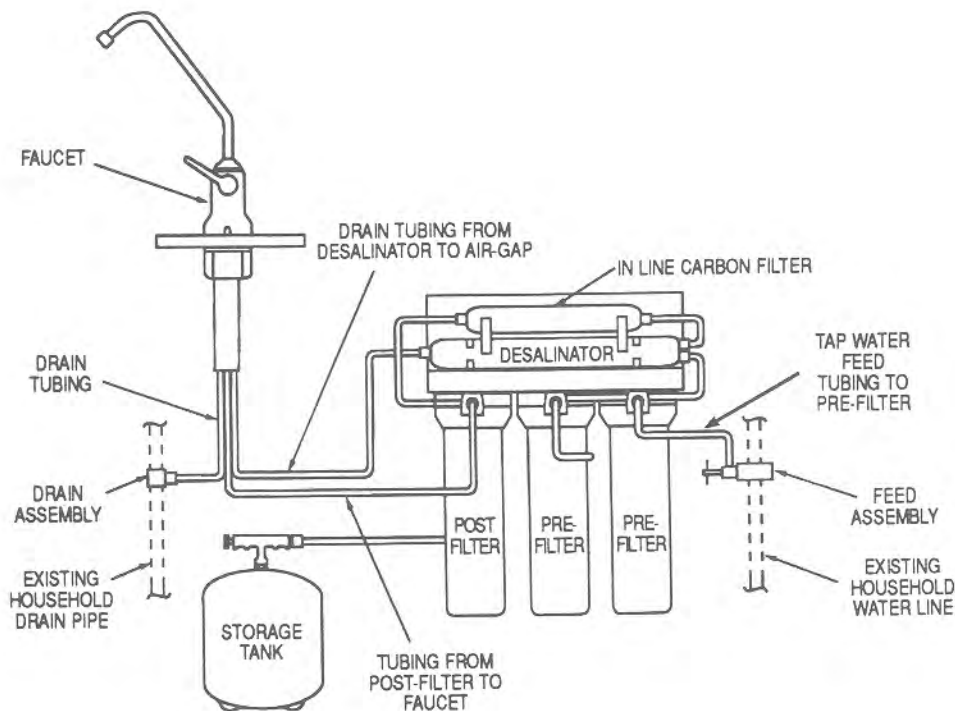
7. Connect the 1/4" gray tubing from the faucet to the brine outlet on the desalinator by using a jaco nut and insert.

8. Connect a length of 3/8" tubing, of sufficient length to reach the drain saddle, to the black tubing from the faucet by flaring the end of the 3/8" tubing and inserting the black drain tubing into it. This should provide a sufficient friction fit, as there is no water pressure at this point.

9. Connect the free end of the 3/8" drain tubing to the drain saddle by using a jaco nut and insert.

Note: If the customers refrigerator is equipped with an automatic ice maker, and you have access to its feed line, you may connect it to the R/O system.

Use a 1/4" "T" connection (available separately from Nimbus) installed in the product water faucet line and connect the ice maker feed line to the branch of the "T".



Activating the System

For Dealer Prepped Systems:

1. Open the system faucet (handle up) and open the feed water supply valve. After the feed valve is fully opened, open the storage tank valve momentarily to force air out until water is flowing from the system faucet. (Turn the plunger knob counterclockwise 1/8", and pull the plunger out to open the tank valve).
2. Close the tank valve (push the plunger back in and turn the knob clockwise to close the valve).
3. Disconnect the 3/8" drain tubing from the drain saddle to insure that there is adequate brine flow and that no brine or drain tubing is kinked or crimped.
4. Check for water production. There should be a steady drip of water from the system faucet.
5. After water production has started, open the tank valve, close the faucet and check all connections for leaks.
6. Open the faucet and completely drain the tank. This must be done to drain the sanitizing agent from the tank.
7. Close the faucet. The system is now operational, and the tank will begin to fill with drinking water.

If you decided not to complete the dealer preparation please follow the instructions below.

Self-Sanitizing System Activation:

Note: If you have connected the automatic ice maker to the R/O system, turn off the ice

maker until system activation is complete.

1. With system faucet open (handle up), open the feed water valve.
2. Water will begin to drip from the faucet in 20 to 30 minutes. Allow water to drip for about 4 hours to expel air and sanitizing agent from the system.
3. Check all connections for leaks and tighten if necessary.
4. Disconnect the 3/8" drain tubing from the drain saddle to insure that there is adequate brine flow and that no brine or drain tubing is kinked or crimped.
5. After the 4 hour drip cycle is completed, close the system faucet and open the tank valve. (Turn the plunger knob counterclockwise 1/8", and pull the plunger out to open the tank valve).
6. It is essential that the storage tank be properly sanitized to insure product water is stored in the best possible condition. For your convenience the tank comes assembled with the sanitizing agent included in the tank. Allow the tank to fill with R/O product water (approximately 8 hours). Then empty the tank to remove any residual sanitizing agent.

IMPORTANT: For your convenience the tank comes factory prepped with a sanitizing agent. Tank must be emptied after it is filled for the first time. This agent, though harmless, can produce an unpleasant taste in the product water.

Appendix A

Product Flow Rates in gpd for Nimbus CS-3 CA Membrane

Tap Water		Normal Water Production Rates in GPD for a Line Pressure Of:						
Temp #F	TDS	30	40	50	60	70	80	90
50	50	2.60	3.47	4.35	5.23	6.10	6.98	7.86
	250	2.47	3.35	4.22	5.10	5.98	6.85	7.73
	500	2.31	3.18	4.06	4.94	5.81	6.69	7.57
	750	2.15	3.02	3.90	4.78	5.65	6.53	7.41
	1000	1.99	2.86	3.74	4.62	5.49	6.37	7.25
	1500	1.66	2.54	3.42	4.29	5.17	6.05	6.92
	2000	1.34	2.22	3.09	3.97	4.85	5.72	6.60
60	50	3.05	4.08	5.11	6.14	7.16	8.19	9.22
	250	2.90	3.93	4.96	5.98	7.01	8.04	9.07
	500	2.71	3.74	4.77	5.79	6.82	7.85	8.88
	750	2.52	3.55	4.58	5.61	6.63	7.66	8.69
	1000	2.33	3.36	4.39	5.42	6.45	7.47	8.50
	1500	1.95	2.98	4.01	5.04	6.07	7.10	8.12
	2000	1.57	2.60	3.63	4.66	5.69	6.72	7.75
70	50	3.59	4.80	6.01	7.22	8.43	9.64	10.85
	250	3.41	4.62	5.83	7.04	8.25	9.46	10.67
	500	3.19	4.40	5.61	6.82	8.03	9.24	10.45
	750	2.96	4.17	5.38	6.60	7.81	9.02	10.23
	1000	2.74	3.95	5.16	6.37	7.58	8.79	10.00
	1500	2.30	3.51	4.72	5.93	7.14	8.35	9.56
	2000	1.85	3.06	4.27	5.48	6.69	7.90	9.11
80	50	4.19	5.61	7.03	8.44	9.86	11.27	12.69
	250	3.99	5.40	6.82	8.23	9.65	11.06	12.48
	500	3.73	5.14	6.56	7.97	9.39	10.80	12.22
	750	3.47	4.88	6.30	7.71	9.13	10.54	11.96
	1000	3.21	4.62	6.04	7.45	8.87	10.28	11.70
	1500	2.69	4.10	5.52	6.93	8.35	9.76	11.18
	2000	2.16	3.58	5.00	6.41	7.83	9.24	10.66
90	50	4.88	6.52	8.17	9.82	11.46	13.11	14.75
	250	4.64	6.28	7.93	9.57	11.22	12.87	14.51
	500	4.33	5.98	7.62	9.27	10.92	12.56	14.21
	750	3.03	5.68	7.32	8.97	10.61	12.26	13.91
	1000	3.73	5.37	7.02	8.67	10.31	11.96	13.60
	1500	3.12	4.77	6.41	8.06	9.71	11.35	13.00
	2000	2.52	4.16	5.81	7.46	9.10	10.75	12.39

Notes:

- Cellulose acetate/triacetate blend.
- GPD gallons per day average. Minimum not less than 85% of the average.
- Total dissolved solids in parts per million (ppm).

Product Flow Rates in gpd for Nimbus CS-3 TFM® Membrane

Tap Water		Normal Water Production Rates in GPD for a Line Pressure Of:						
Temp #F	TDS	30	40	50	60	70	80	90
50	50	3.00	4.01	5.02	6.04	7.05	8.06	9.07
	250	2.85	3.86	4.88	5.89	6.90	7.91	8.93
	500	2.66	3.68	4.69	5.70	6.71	7.73	8.74
	750	2.48	3.49	4.50	5.52	6.53	7.54	8.55
	1000	2.29	3.31	4.32	5.33	6.34	7.35	8.37
	1500	1.92	2.93	3.95	4.96	5.97	6.98	7.99
	2000	1.55	2.56	3.57	4.59	5.60	6.61	7.62
60	50	3.77	5.05	6.32	7.59	8.86	10.14	11.41
	250	3.59	4.86	6.13	7.40	8.68	9.95	11.22
	500	3.35	4.62	5.90	7.17	8.44	9.72	10.99
	750	3.12	4.39	5.66	6.94	8.21	9.48	10.76
	1000	2.88	4.16	5.43	6.70	7.98	9.25	10.52
	1500	2.42	3.69	4.96	6.23	7.51	8.78	10.05
	2000	1.95	3.22	4.49	5.77	7.04	8.31	9.59
70	50	4.70	6.29	7.88	9.46	11.05	12.64	14.23
	250	4.47	6.06	7.64	9.23	10.82	12.40	13.99
	500	4.18	5.76	7.35	8.94	10.53	12.11	13.70
	750	3.89	5.47	7.06	8.65	10.23	11.82	13.41
	1000	3.59	5.18	6.77	8.36	9.94	11.53	13.12
	1500	3.01	4.60	6.18	7.77	9.36	10.95	12.53
	2000	2.43	4.01	5.60	7.19	8.78	10.36	11.95
80	50	5.82	7.78	9.74	11.70	13.66	15.63	17.59
	250	5.53	7.49	9.45	11.41	13.38	15.34	17.30
	500	5.17	7.13	9.09	11.05	13.02	14.98	16.94
	750	4.81	6.77	8.73	10.69	12.65	14.62	16.58
	1000	4.44	6.41	8.37	10.33	12.29	14.26	16.22
	1500	3.72	5.69	7.65	9.61	11.57	13.53	15.50
	2000	3.00	4.96	6.93	8.89	10.85	12.81	14.78
90	50	7.14	9.54	11.95	14.36	16.77	19.17	21.58
	250	6.78	9.19	11.60	14.00	16.41	18.82	21.23
	500	6.34	8.75	11.15	13.56	15.97	18.38	20.79
	750	5.90	8.30	10.71	13.12	15.53	17.94	20.34
	1000	5.45	7.86	10.27	12.68	15.08	17.49	19.90
	1500	4.57	6.98	9.38	11.79	14.20	16.61	19.02
	2000	3.68	6.09	8.50	10.91	13.31	15.72	18.13

Notes:

- Thin film membrane TFM®
- GPD gallons per day average. Minimum not less than 85% of average.
- Total dissolved solids in parts per million (ppm).

Replacement Parts List

Description	Part Number
Desalinator (CA) (For use with automatic shut-off valve)*	104101
Desalinator (CA) (For use without automatic shut-off valve)*	104100
Desalinator (TFM®) (For use with automatic shut-off valve)*	104105
Desalinator (TFM®) (For use without automatic shut-off valve)*	104104
Pre-filter element (20 micron)	100183
Pre-filter element (GAC)	100128
Post-filter element (GAC)	100180
Faucet Assembly, Air-Gap, Long Reach Spout	104092
Tank (gray)	100332
Nimbus molded tank valve	104072
Automatic shut-off valve	104019
In-Line Carbon Post Filter	100123

* Refer to the parameter label on your system to determine the appropriate replacement desalinator.

Warranty

The manufacturer warrants to the original purchaser of the system that the system components are free of defect and will perform as indicated. The manufacturer further warrants that during the first years use, the minimum mineral rejection will not be lower than 80% of the initial performance.

Limitations

The forgoing warranty of the system is expressly limited by and subject to the following:

1. This warranty applies only if the system is installed in compliance with the installation instructions enclosed with the system.
2. The system is intended for use with water pressure of 40 to 100 pounds (psig), and water temperatures of 32°F to 100°F.
3. Misuse, neglect or unauthorized repairs or alterations shall void this warranty.

Defects

If the system fails to perform as set forth in this Warranty, please mail post paid to:

Nimbus Water Systems
Customer Service Dept.
288 Distribution Street
San Marcos, CA 92069

Please include a written explanation of the problem as well as your name, address, phone number and the date on which you purchased the Product.

The manufacturer reserves the right to either repair or replace the Product.

Implied Warranties

The implied at law warranties of merchantability and fitness for a particular purpose shall terminate on the date one year after the date of purchase.

Note: Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Incidental and Circumstantial Damages

The manufacturer does not under any circumstances assume responsibility for incidental or consequential damages, including, but not limited to damages to person or property or loss of revenue. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

Other Rights

The Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

KEEP THIS WARRANTY FOR YOUR RECORDS