

# DEMA 259CT

## PRO SCENTNAL INSTALLATION & OPERATION INSTRUCTIONS

Note – This dispenser is designed for spraying a deodorizing product into a trash chute, a compactor, dumpster, etc. Always refer to a product's MSDS sheet to determine if this Pro Scentnal unit is appropriate for dispensing your product. Wear any safety apparel (gloves, safety glasses) when recommended by the product's MSDS.

Power Requirements: 120 Volt 60 Hertz 1.5 AMPS Fuse Replacement: 5 AMP AGC

### **STEP #1 - MOUNTING**

1. Select a dry location as this case is only water resistant.
2. Try to locate the unit as close as possible to both the chemical supply and the injection point.
3. Wall mounting: Use the screws and anchors provided. Unit keyholes are 5" center to center.

### **STEP #2 - PERISTALTIC PUMP HOOK-UP**

1. Cut a piece of 1/4" tubing long enough to reach from the output (right) side of the pump to the spot where you will install your spray nozzle. Connect the tubing to the right side of the pump. Secure the line on its run with electric ties.
2. Drill a 15/32" hole at the desired mounting location for the nozzle assembly. Remove the 1/4" plastic compression nut, the 7/16-20 hex jam nut, and one of the two washers from the assembly. Bring the 7/16-20 thread through your mounting hole so the nozzle points at your injection location. Slide the washer back on the threads, then thread and tighten the jam nut on the assembly, and lock it in place. Once it is tight, slide the compression nut down on the supply tubing about an inch. Push the supply tubing into the brass fitting until it bottoms, then slide the compression nut down to meet the threads. Hand tighten the nut. Turn the potentiometer that controls the run time on your unit's circuit board up to 50 and manually rotate the timer until the pump turns on. Adjust spray nozzle pattern as needed.
3. Using the compression nut on the supply (left) side of the pump, connect the 1/4" supply tubing. Make this line long enough to reach the bottom of the supply container and long enough that some one in the kitchen can make the supply container accessible to change it when it is empty.
4. Remove the nut from one side of the 1/4" x 1/4" compression union fitting and slide it on one end of the 16" piece of rigid 1/4" tubing. Insert the end of the 16" piece of tubing into the side of the union where you removed the nut until it seats. While holding it against the seat, slide the nut against the union fitting and tighten the nut on the fitting. Once the nut is finger tight, use a wrench to tighten it an additional 1/2 turn or until the 16" tube is tightly held by the fitting. OPTIONAL – with a pair of wire cutters, cut the opposite end of the 16" tube (that will rest on the bottom of the product container) at a 45 degree angle. Remove the nut from the other side of the union fitting and slide it up the end of the 1/4" supply tubing. Take the end of the supply tubing and insert it into the union fitting until it seats. While holding it against the seat, slide the nut against the union fitting and tighten the nut on the fitting. Once the nut is finger tight, use a wrench to tighten it an additional 1/2 turn or until the supply tubing is tightly held by the fitting. This is your dip tube and it will be inserted into your product container. It will prevent the supply tubing from curling up and/or floating. Make supply tubing cuts square. See picture on last page of instructions.

Spray Nozzle Orifice Size:.060"

Stream is a solid cylinder of liquid with nozzle wide open. Cone is a wide dispersed pattern with Nozzle almost closed.

Flow Rates @ 40 PSI Dynamic Water Pressure:

"Stream" .33 Gallons Per Minute

"Cone" .20 Gallons Per Minute

## TIMING SETUP

### **STEP #1 - 24 HOUR TIMER – Orange Ring**

**NOTE: THE CLOCK FACE MAY ONLY BE ROTATED CLOCKWISE!!**

1. This unit can be triggered as often as TWICE every hour. Predetermine the time or times of day at which you want to dispense the product.
2. This timer has 96 BLACK tabs, each of which represents a 15 MINUTE increment on a 24 hour clock. THERE IS NO DESIGNATION FOR AM OR PM, YOU DETERMINE IT ACCORDING TO WHERE YOU SET THE TIME OF DAY. Set the correct time of day with the ARROW THAT POINTS TO THE RIGHT. Rotate the dial until the arrow points to the correct time.

Timing Setup Continued:

3. To select an "on" time, locate the tab that is next to the number representing the time at which you want the pump to run. **SLIDE ONLY THAT TAB TOWARD THE CENTER OF THE TIMER USING A FINGERNAIL OR A SMALL SCREWDRIVER.**

**EXAMPLE:** If you wanted the dispenser to pump at 1:00 a.m. and again at 2:00 a.m., you would **SLIDE IN** the tab adjacent to the 1:00 mark. The tabs at the 12:45 and the 1:15 marks would remain **OUT**. The tab at 2:00 would be pushed in while the 1:45 tab and 2:15 tabs would remain out. **A TAB THAT IS SLID TOWARD THE CENTER REPRESENTS AN "ON" TIME AND A TAB TOWARD THE OUTSIDE REPRESENTS AN "OFF" TIME. EVERY ON TIME SHOULD BE FOLLOWED BY AN OFF TIME.**

**CIRCUIT BOARD PUMP RUN TIME ADJUSTMENT**

**CAUTION: SHOCK HAZARD - THE CIRCUIT BOARD has 115 Volts on it. This board is sprayed with a clear protective coating, but should not be touched when energized.**

1. In the middle of the circuit board, there is a 1/2" black dial with a slotted arrow in its center. Along its edge is marked "0" through "100". These numbers are for reference only and do not represent time. This is where you adjust how long the pump runs. Run times can be varied from approximately 4 seconds to 11 minutes on a standard board, 1 second to 75 seconds on an **OPTIONAL** food board.
2. A small screwdriver is inserted into the slot on the black dial and used to adjust the run time up or down.
3. **ONCE YOU HAVE SET YOUR RUN TIME - TO CHECK PUMP TIMES AND PRIME THE PUMP, SLOWLY ROTATE THE DIAL **CLOCKWISE** ON THE TIMER UNTIL YOU COME TO AN ON TIME. MAKE SURE THE POTENTIOMETER IS TURNED UP IF YOU ARE PRIMING THE PUMP.**

THE FOLLOWING RUN TIME / OUTPUT CHART REPRESENTS APPROXIMATIONS - VARIATIONS IN VOLUME DUE TO VISCOSITY AND VARIATIONS IN TIME DUE TO TOLERANCES OF ELECTRONIC COMPONENTS FROM BOARD TO BOARD WILL AFFECT THESE NUMBERS. USE THIS ONLY AS A GUIDE.

**STANDARD PRO DRAIN CHIEF / PRO SCENTNAL BOARD RUN TIME CHART.**

Run time of 4 seconds - 10 minutes.

Setting on Potentiometer:	Approximate Run Time Std. <b><u>PDC Board</u></b> MINUTES	Approximate Pump Output <b>HIGH SPEED</b> OUNCES	Approximate Pump Output <b>HIGH SPEED</b> ML.
0*	0.066	1.19	34
10	1	18	522
20	2	36	1044
30	3	54	1566
40	4	72	2088
50	5	90	2610
60	6	108	3132
70	7	126	3654
80	8	144	4176
90	9	162	4698
100	10	180	5220

\* There is no adjustment below 0 - minimum run time for this board is 4 seconds.

**MAINTENANCE**

1. PERIODIC MAINTENANCE IS AS SIMPLE AS KEEPING THE PUMP LUBRICATED.
  - a) As the grease in the pump dries out, the pump will need to be re-greased with good silicone grease such as "Permatex Super Lube II with Teflon". Grease can be applied by using the access hole located on pump face above the felt pad or by removing pump face and applying grease directly to felt pad and wall of the pump cavity.
  - b) If a pocket of air starts to appear in the 1/4" tubing on the intake side of the pump - the squeeze tube is failing.

- c) When changing a squeeze tube, always clean out the pump cavity and re-grease the roller assembly, felt pad, and the cavity.

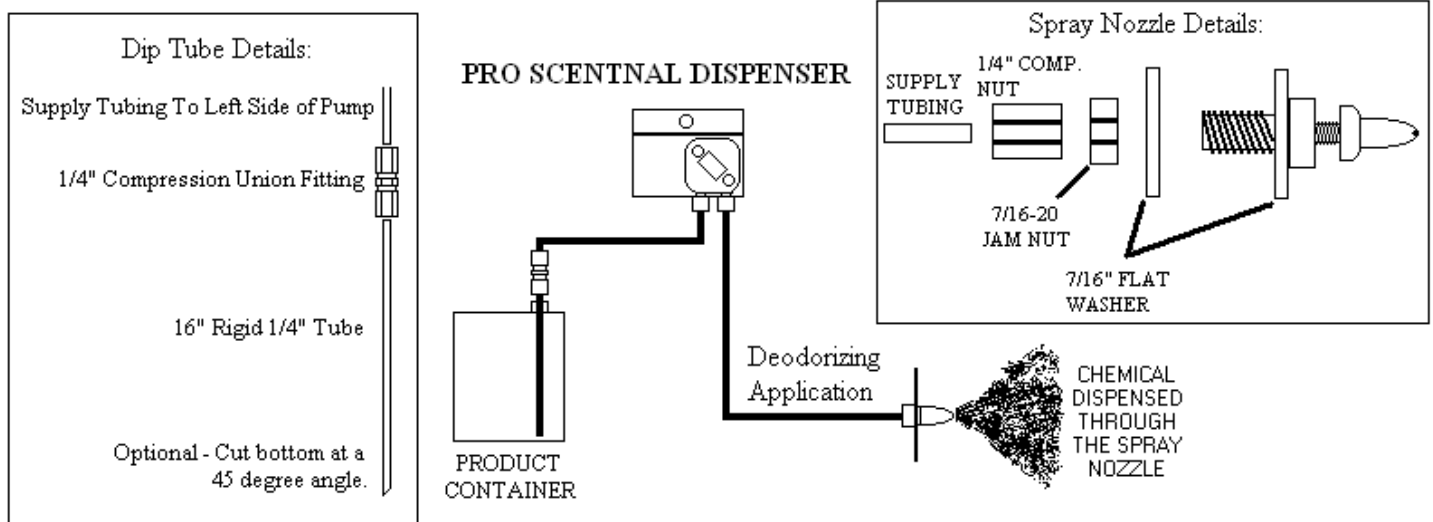
## TROUBLE SHOOTING

### NEW INSTALLATION

1. Motor runs but will not pull chemical from the bucket.
  - a) Check tubing run from supply bucket to injection point for air leaks. Make sure all compression nuts are tight.
  - b) Check for kinks or blockage in supply line to the pump. Is the nozzle open or closed?
  - c) Dip tube properly assembled and installed? Reaches the bottom of the product container?

### EXISTING INSTALLATION

1. Motor runs but will not pull from the bucket.
  - a) Ruptured squeeze tube - is there evidence of chemical inside of the pump housing?
  - b) Loose fitting/Air leak - check all compression fittings.
  - c) Kinks or blockage in the tubing. Spray nozzle open? Spray nozzle clogged / blocked? Spray Nozzle Corroded?
  - d) Supply container empty.
2. Motor will not run.
  - a) Unit still plugged in? Some maintenance workers will unplug a unit when mopping close by. Outlet has 120 Volts (230 Volts)? Also verify that the outlet you have chosen is not controlled by a switch.
  - b) Motor / board burned out? Turn pot to max run time. Rotate timer to on tab to send power to the board. Use a voltmeter to determine that there is voltage present at the motor leads by touching the probe ends to the screw heads in the top of the 2 position terminal block where the motor wires are connected to the board. If you have 115 VAC (230 EXP) present, your motor is bad. If 115 (230 EXP) is not present, your board may be bad. Look for burned components on the board.



DEMA REPLACEMENT PARTS LIST FOR 259CT DISPENSER.

DESCRIPTION	Dema PART NO.
DEMA 257C / 259CT 1/4" JACO COMPRESSION NUT (ONE PIECE)	25.200
DEMA 257C / 259CT 1/4" SUPERTUBE NO ENDS (8") - BACTERIA / ENZYME	25.201
DEMA 257C / 259CT 1/4" SUPERTUBE WITH ENDS COMPLETE - BACTERIA / ENZYME	25.202
DEMA 257C / 259CT 1/4" VITON TUBE NO ENDS (8") - SOLVENT / D-LIMONENE	25.203
DEMA 257C / 259CT 1/4" VITON TUBE WITH ENDS COMPLETE - SOLVENT / D-LIMONENE	25.204
DEMA 257C / 259CT FACEPLATE WITH BEARING COMPLETE	25.205
DEMA 257C / 259CT PUMP HOUSING TO CASE / FACEPLATE SCREWS	25.206
DEMA 257C / 259CT REPLACEMENT CASE BOTTOM ONLY	25.207
DEMA 257C / 259CT REPLACEMENT LID ONLY	25.208
DEMA 257C / 259CT WHITE ROLLER ASSEMBLY	25.209
DEMA 259CT 24 HOUR 120 VAC ELECTRO MECHANICAL TIMER	25.214
DEMA 259CT BRASS SPRAY NOZZLE ASSEMBLY COMPLETE	25.215
DEMA 259CT CIRCUIT BOARD COMPLETE	25.216
DEMA 259CT PUMP MOTOR - 120 VOLT AC 120 RPM MOTOR 18 OUNCE PER MINUTE	25.217
DEMA 259CT WIRING HARNESS COMPLETE	25.218

**WARRANTY**

Viking LLC, A DEMA Company products are warranted against defective material and workmanship under normal use and service for one year from the date of manufacture. This limited warranty does not apply to any products which have a normal life shorter than one year or failure and damage caused by chemicals, corrosion, improper voltage supply, physical abuse or misapplication. Rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. This warranty is extended only to the original buyer of Viking LLC products. If the products are altered or repaired without prior approval of Viking LLC, this warranty will be void.

Defective units or parts should be returned to the factory with transportation prepaid. If inspection shows them to be defective, they will be repaired or replaced without charge, F.O.B. factory. Viking LLC assumes no liability for damages. Return Merchandise Authorization (RMA) number to return units for repair or replacement must be granted in advance of return.