



System with Premium Mist Box

System Maintenance & Troubleshooting Manual













Table of Contents

Exploded View of the System	3
System Maintenenace	4
Pre-Requisites for Troubleshooting	5
Problem Identification	6
Timer Adjustment	7
Timer Troubleshooting	8
Potentiometer Troubleshooting	9
Pump Troubleshooting	10
Tank Troubleshooting	11
Solenoid Troubleshooting	12
Solenoid Cleaning	13 - 14
Pressure Gauge Adjustment	15
System Warranty	16

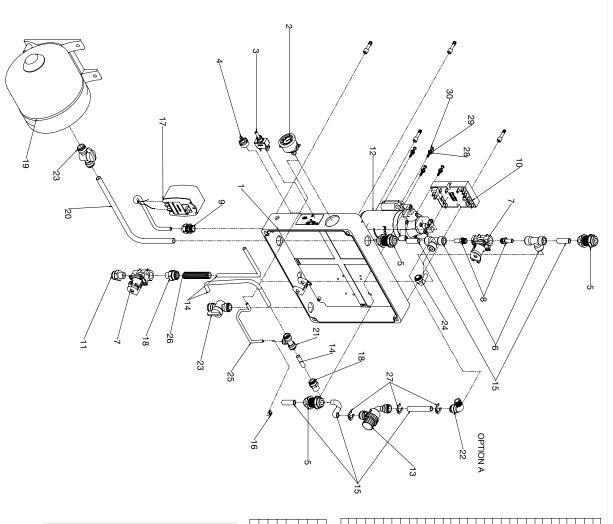
If there is any information in this manual that is unclear, please let us know so we can revise future editions.

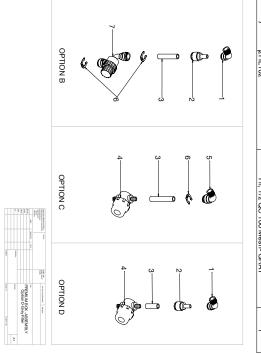
Contact our Customer Service department with your suggested edits: sales@prodew.com or 770.420.3060





Exploded View of the System





5	4	З	2	_	ITEM NO.	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	⇉	10	9	8	7	6	5	4	З	2	_	ITEM NO.
2PFEQ12M38	2FIL007	2TUB12O-38I-W	2PSEQ12S38	2PSEQ38S38	PART NUMBER	3FAS009	3FAS006	2FAS003	2PSEQ12S38	2TUB-COR-12ID-B-SLT	2TUB 140-12ID-W-SLT	2TUB12O-38I-W	2VALQ12	2PFEQ12M38	2PRTQ38Q14Q38	2TUB12O-38I-B	2EXP02G-12	2PMCQ38M38	1TRA001	3LOCKCLP14	2TUB12O-38I-W	2TUB38O-14I-W	2FIL102	1PUMP24V-100PSF38-SW	2PMCQ12M38	1TIM007	1CON018	2PSAS12M38	1SOL38-24-NC-FIL-P	2PRTQ12Q38Q12	2PBHQ12Q12	1POT001	1SWI006	2GAU006	3ENC004	PART NUMBER
	Fil, 1/2 QC 100 Mesh- GRAY	Tub, 1/20D Poly WH	Stem Enlarger, 1/2Qx3/8Stem	Stem Elbow, 3/8Qx3/8Stem	DESCRIPTION	Fstnr, 8-32 X 1 1/4 PGIL MSZ	Fstnr, Washer 3/16x3/4 Z Fend	Fstnr, 8-32 MACH Scrw Nut Z	Stem Enlarger, 1/2Qx3/8Stem	Corr Tube, 1/2 ID Slit BK	Tub, 1/4OD Poly WH	Stem Elbow, 3/8Qx3/8Stem	Straight Valve 1/2-1/2	Fixed Elbow, 1/2"QC x 3/8"M	Reducing T, 3/8Qx1/4Qx3/8	Tub, 1/20D Poly BK	Expansion Tank, 2Gal- 1/2" FNPT Port	Male Connector, 3/8" QCx3/8NPFT	Trnsf, 24V-40VA-110-WI Plg	LOCKING CLIP 1/4"	Tub, 1/20D Poly WH	Tub, 3/80D Poly WH	Fil, 1/2 QC 100 Mesh- GRAY	Pmp 24VPRSR 3/8FPT Switch	Male Connector, 1/2QC x 3/8MPT	Tmr Block, Mist/Flush	Cord Grip, Waterproof PG11		Solenoid, 3/8" FNPT 2 W NC 24VPI/FIL		Bulkhead, 1/2QC x 1/2QC	PT-4 Potentiometer	Tgl Swtch, w/lit 3 Pos NC-24V	Gauge 1.5" 1/4NPT, 0-160	Enclosure, 12x10x6 PI- Gray	DESCRIPTION
1	1	_	_	1	QTY.	4	4	4	3	1	1	1	2	1	_	1	_]	_	1	5	3	_	1	2	1	_	2	2	2	ယ	_	1	_	_	QTY.





Semi-annual System Maintenance: Screen Filter Cleaning

- Inspect and clean the screen filters inside the solenoid box as instructed below.
- If the filters cannot be cleaned, have them replaced.

Monthly System Maintenance: Nozzle Cleaning

- Sprayheads and nozzles should be disinfected according to your normal sanitation standards.
- Use a clean, wet cloth to clean any deposits on the nozzles (dust, vegetable matter, pink yeast, or minerals).

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Instructions	lmages
 STEP 1 Remove the mist box cover by unscrewing the 4 screws located at each corner of the box. 	
 STEP 2 Turn off the ball valve on the tank and the "water inlet" valve on the mist box. 	TURN OFF
 STEP 3 To empty any remaining water from the system, flip the toggle switch to the Off position, wait 10 seconds, and then flip it back to the On position. This will activate the timer and start a misting and a flush cycle. Flip the toggle switch to the Off position at the completion of the cycle (10 seconds). 	ON/OFF SWITCH
 STEP 4 Locate the filter on the inlet side of the pump and unscrew the top of the filter. Remove the filter top and take out the cylindrical wire screen. 	
 STEP 5 Clean the screen with water and scrub with a soft brush Reinsert the screen. Replace and tighten the filter top. Lubricate any rubber seals. 	
 STEP 6 Turn the tank and mist box ball valves to the open position. Flip the toggle switch to the On position. Check system operation and leaks. 	TURN ON





Pre-Requisites for Troubleshooting

BEFORE STARTING ANY TROUBLESHOOTING PLEASE CHECK THE FOLLOWING:

Items to Check	Instructions
STEP 1 Power	Ensure that the transformer is plugged in and the system is getting power. If there is no power to the system, test the transformer with multimeter 24 VAC output. If the transformer is not functioning, replace it.
STEP 2 Water	Ensure that the system is connected to the city water supply and the ball valve on the female adapter is turned on. Ensure there is Incoming Water pressure and flow.
STEP 3 Equipment Assembly	Ensure that the system is assembled properly and all the components are tightly connected.

***If repairs or changes have been made to the control box, pressure tank, or water feeds, we recommend that you flush the lines to ensure that no particles, liquid teflon, teflon tape, pipe dope, or any other foreign matter is present in the system.

Procedure for Flushing the Lines

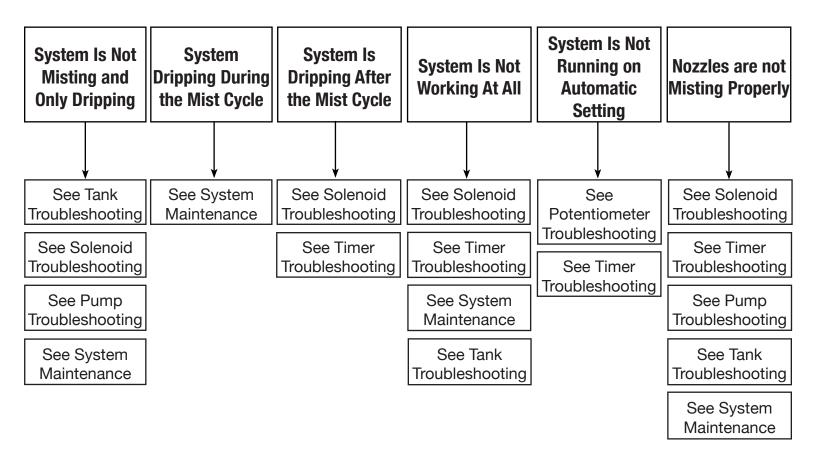
Instructions	lmages
 STEP 1 Flip the toggle switch on the Mist Box to the Off position. Unplug the 3/8 Stem Plug from the end of the Mist Track. Connect a piece of 3/8 Poly tubing to the Mist Track and place the other end into a bucket or drain. 	
 STEP 2 Flip the toggle switch to the On position. Let the system run for 30 seconds to flush the lines from any debree. Disconnect the tubing from the Mist track and plug the Mist Track with the 3/8 Stem Plug. 	





Problem Identification

Flip the toggle switch to the ON position and observe.







Timer Adjustment

- The recommended settings are preset at our manufacturing facility.
- ONLY change the settings if there is too much or too little mist.

Recommended Timer Settings

Recommended Timer Settings	Cases with Drain
MIST Time (Amount of time the mist is being produced)	7 Sec
OFF Time (Amount of time between mistings)	7 Min
FLUSH Time (This flushes the system and prevents dripping)	3 Sec

Steps to Set the Timer

Instructions	Images
 STEP 1 Change the time between mist cycles by turning the "OFF TIME" knob on the front of the control box. 	TARK PRESIDENT REFAUR MODE THE PRINT HOME TO BE THE PRINT HAVE THE PRINT HOME TO BE THE PRINT HAVE THE PRINT
 STEP 2 To change the ON time or FLUSH remove the mist box cover by unscrewing the 4 screws located at each corner of the box. 	
 The ON time is set by rotating the blue screw marked "MIST" on the timer block. The FLUSH time is set by rotating the blue screw marked "FLUSH" on the timer block. 	POORW 15 OF STATE OF
 STEP 4 Re-attach the mist box cover by screwing in the four screws located at each corner of the box. 	





Timer Troubleshooting

Instructions	Images							
 Flip the toggle switch to the OFF position. 	ON/OFF SWITCH							
STEP 2								
Remove the mist box cover by unscrewing the screws in the corners of the box.								
Disconnect the red and green power leads from solenoid in the mist box.	Prodev							
Connect multimeter to the two wires previously attached to the solenoid.	THE STATE OF THE S							
• Flip the toggle switch to the ON position.	ON/OFF SWITCH							
 STEP 6 Check for 24 VAC to solenoid multimeter reading. If the reading is not 24 VAC, the timer needs to be replaced. 	W W W							





Potentiometer Troubleshooting

Potentionieter froubleshooting							
Instructions	Images						
• Flip the toggle switch to the OFF position.	ON/OFF SWITCH						
 STEP 2 Remove the mist box cover by unscrewing the 4 screws located at each corner of the box. 							
• Disconnect wires from potentiometer in the mist box.	Process Pro						
 Connect the black power multimeter lead to the <u>first</u> black power lead and the red power multimeter lead to the <u>red</u> power lead. While rotating the potentiometer knob in the fron of the box check the multimeter reading. It should be <u>between 0 and 10,000 OHM</u>. Then connect the red power multimeter lead to the <u>white</u> power lead. Repeat the multimeter procedure above. Connect the black power multimeter lead to the <u>second</u> black power lead and the red power multimeter lead to the <u>red</u> power lead. Repeat the multimeter procedure above. Then connect the red power multimeter lead to the <u>white</u> power lead. Repeat the multimeter procedure above. 	THE SERVICE STATE OF THE SERVI						
 STEP 5 Check the OHM measuremnets. If the readings keeps adjusting the potentiometer is working properly. If not, replace potentiometer. 	THE PARTY OF THE P						





Pump Troubleshooting

Instructions	Images
• Turn the tank valve to the OFF position.	TURN OFF
 STEP 2 Flip the toggle switch to the TEST position. Pump should start running after 5 seconds. 	ON/OFF SWITCH
 STEP 3 Check pressure gauge on the mist box. If should reach100 PSI and then turns off. If not, the pump needs replacement. 	Prodev Span
 STEP 4 Flip the toggle switch to OFF position. Turn the tank valve to the ON position. 	REPAIR MODE REPAIR MODE MSTRUCJON ORP 1 ON/OFF SWITCH





Tank Troubleshooting

Flip the toggle switch to the Test position and run the system.

If the mist pressure increases after 20 seconds follow the instructions below.

If the mist pressure increases after 20 seconds follow the instructions below.							
Instructions	Images						
 STEP 1 Remove the plastic cap on the side of the tank. It will expose the shrader valve. 							
 STEP 2 Momentarily press the needle valve inside the shrader. This should give you a burst of air. If not, the tank needs replacement. 							





Solenoid Troubleshooting

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Instructions	Images
 Check if the solenoid are getting 24 VAC power. Disconnect the power leads from each solenoid. Connect the power leads from each solenoid to the multimeter. The multimeter reading should be 24 VAC or more. If not see Timer Troubleshooting. 	Age of the state o
 STEP 2 Remove the mist box cover by unscrewing the 4 screws located at each corner of the box. 	
 To check the mist solenoid hold a small magnetic piece of metal (steel or iron) over the solenoid coil during the mist cycle. To check the drain solenoid hold a small magnetic piece of metal (steel or iron) over the solenoid coil after the mist cycle. The metal object should be attracted to the the solenoid coil. If not, the coil is bad and needs to be replaced. 	
 STEP 4 If the mist or drain coil is energizing check the proper flow through solenoid by removing the line from "mist" or "drain" port and then connecting a spare piece of tubing into it. Tubing should be long enough to reach a bucket or drain. Aim tubing into a 5 gallon bucket. Flip the toggle switch to the On position. 	300 MIN 1900
 STEP 5 Heavy flow of water will rush out into the bucket. If not, the solenoid is clogged and needs to be serviced or cleaned (See Solenoid Cleaning). If the solenoid cannot be cleaned replace the solenoid. 	





Solenoid Cleaning

If one of the 24V solenoids is not functioning:

- 1) the drain remains open or,
- 2) the drain does not open or,
- 3) no water is going to the misting nozzles and you have confirmed that the solenoids are getting power,

The diaphragm hole may be blocked and needs to be cleaned.

Instructions	Image
 Turn off the ball valve on the mist box, tank and incoming water line. Release the pressure from the system by turning the toggle switch to the On position. Let it run for one cycle. Turn the toggle switch to the Off position. 	TURN OFF
Remove the mist box cover by unscrewing the 4 screws located at each corner of the box.	
 STEP 3 Remove the red power leads from the solenoid. 	COLLECTION OF THE MINISTER OF
 STEP 4 Detach the solenoid from the tees on both sides and remove it from the mist box. 	Podew Andrews
Locate the screw with the anti vibration washer. Remove the screw first.	





Solenoid Cleaning (Continued)

Instructions	Image
STEP 6 • Lift off coil.	
• Undo remaining 3 screws.	
STEP 8 • Remove metal plate.	
STEP 9Remove post and spring and set aside.	
STEP 10 • Remove diaphragm.	
• If the solenoid is clogged clean out the hole with a brush, pressurized air or with flowing water. If the diaphragm is torn, replace the solenoid. Re-assemble.	





Pressure Gauge Adjustment

Instructions	lmages
 STEP 1 Remove the mist box cover by unscrewing the 4 screws located at each corner of the box. 	
Using an allen wrench, adjust the presssure switch by rotating the pressure switch counterclockwise.	TIPPOJA -





VersaFresh System Warranty

At Prodew, we are dedicated to providing innovative designs and well-made products to fit our customers' individual needs. If the product you purchase from us does not perform to the design specifications, we ask for the opportunity to make it right.

If you are still not satisfied, we will make adjustments according to our Limited Warranty and Exclusion of Remedies Policy.

LIMITED WARRANTY AND EXCLUSION OF REMEDIES

Perishable control equipment and component parts distributed by Prodew, Inc., its suppliers and agents, as well as new material furnished hereunder, is warranted against any defect in materials or service in accordance with factory recommendations providing that a claim, therefore, is made in writing within the limitt set forth as 365 days from the date of invoice for parts and 90 from the date of invoice for labor, and that either Prodew, Inc. or its Authorized Service Agency's examination, shall disclose to the Distributor's satisfaction to be thus defective. PRODEW INC.'S OBLIGATION ON ANY CLAIM IS LIMITED TO REPLACEMENT OR REPAIR OF THE DEFECT OR MATERIAL F.O.B. FACTORY.

Pretreatment may adversely affect the performance of Prodew, Inc.'s perishable control equipment. Prodew, Inc. takes no responsibility for damage resulting from unapproved pretreatment equipment and/or inappropriate maintenance of said equipment.

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