



## INSTRUCTION SHEET

**Model ET-4 NEMA 4 P/N 70550-11**

**Model ET-5 NEMA 4 P/N 70550-13**

### **AUTOMATIC TIMER / DRAIN VALVES**

One of the switches marked 1 through 4 and one of the switches marked 5 through 8 must be at the “on” position. If they are not, the Timer Drains **will not operate**. To be certain that the timer drain does operate when you receive it, it is set at the factory to blow down every ½ hour (switch 2) for 9 seconds (switch 6). Switches are located on the printed circuit board, inside the cover. See reverse side of this bulletin for switch settings.

#### **Adjustment Of Cam For Proper Operation If Valve Does Not Open Or Close Fully:**

Although this timer drain has been thoroughly checked at the factory for proper operation, it is possible for the cam to become loose and not engage properly to turn the ball valve to the “full open” position or to the “full closed” position.

If the ball valve does not fully open or fully close, adjust the cam as follows:

1. Remove the six socket head cap screws which hold the cover on and lift off cover to expose the internals.
2. Remove circuit board.
3. Using a 3/64” Allen wrench, loosen set screw inside of cam alongside microswitch. (If necessary, energize the motor to rotate the cam for accessibility to set screw. **Caution:** Do not short out circuit board.) Rotate the cam slightly, either left or right, checking location of ball inside valve to assure proper opening and closing. Retighten set screw and reinstall circuit board after proper adjustment has been made.
4. Replacement parts can be ordered from the factory or from your local PSB-General Air Distributor.

#### **Replacement Part**

Circuit Board

Microswitch

Manual override switch

½” ball valve for ET-4; c.steel / st. steel

¾” ball valve for ET-5; c.steel / st. steel

#### **PSB Part No.**

70366-79

74597-108

70366-83

74597-100 / -101

74597-104 / -105

## PSB Model ET-4 NEMA 4 & ET-5 NEMA 4 - Automatic Timer/Drain Valves

**Toggle Switch Settings – Switches Are Mounted On The Printed Circuit Board, Under The Top Cover.**

“X” indicates the switch is on.

Time Between Valve Openings					Time Valve Is Open				
Hrs./Min.	SWITCH NUMBERS								
	1	2	3	4	Seconds	5	6	7	8
:15	X				4.5	X			
:30		X –Factory Setting			9.0		X—Factory Setting		
:45	X	X			13.5	X	X		
1:00			X		18.0				X
1:15	X		X		22.5	X			X
1:30		X	X		27.0		X		X
1:45	X	X	X		31.5	X	X		X
2:00				X	36.0			X	
2:15	X			X	40.5	X		X	
2:30		X		X	45.0		X	X	
2:45	X	X		X	49.5	X	X	X	
3:00			X	X	54.9			X	X
3:15	X		X	X	58.5	X		X	X
3:30		X	X	X	63.0		X	X	X
3:45	X	X	X	X	67.5	X	X	X	X

Valve can be set for time between openings with any valve time open.

Power supply 120 volt single phase.

To change times, remove six socket head cap screws, lift off cover and reset switches as required.

To check proper functioning of the printed circuit board and to manually operate valve, press and release manual override on side of housing. Valve will open and remain open for the set opening time. Valve will then close and timer will start a new cycle.

If the manual override is pressed and valve does not turn, the circuit board may be defective and should be replaced or repaired at the factory.



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