



Lumenite®'s MTC-4000

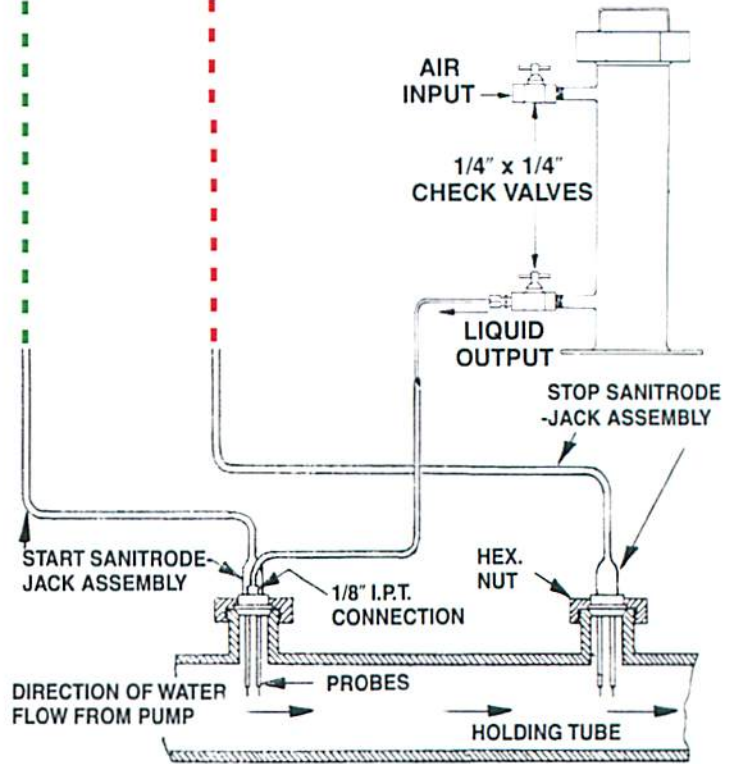
Milk Pasteurization Testing System

The Lumenite Electronic (h.t.s.t.) Testing System, provides a simple and efficient method of measuring the short time, pasteurization holding period required by the U.S. Public Health Code.

This code states that every particle of milk be heated to at least 160 degrees fahrenheit and held at that temperature for a minimum of 15 seconds.

Lumenite's new Milk Pasteurization Testing Kit measures short time pasteurization periods to 1/100 of a second accuracy.

Model SSI-003 stainless steel constructed liquid injector shown with sanitary probe and jack assembly.



Testing Printout

MTC-4000 Test Results Session 1 of 1

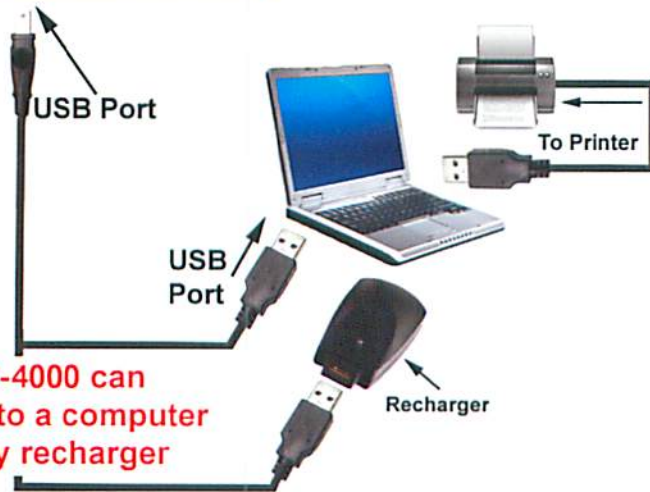
Test Date/Time: 10/5/2015 13:48:47
Test Location: Plant Location
Inspector: Inspector Name
Test Iterations: 9

Holding Time #1: 16.43 Secs
Holding Time #2: 16.29 Secs
Holding Time #3: 16.38 Secs
Holding Time #4: 16.25 Secs
Holding Time #5: 16.53 Secs
Holding Time #6: 16.40 Secs
Holding Time #7: 16.57 Secs
Holding Time #8: 16.31 Secs
Holding Time #9: 16.43 Secs

STATISTICAL DATA

Average: 16.40 Secs
Median: 16.40 Secs
Standard Deviation: 0.11 Secs
Maximum Deviation: 0.34 Secs

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The MTC-4000 can connect to a computer or battery recharger

MTC-4000

Operational Instructions



How To Run A Test . . .

LUMENITE MTC-4000
PASTEURIZATION
TEST SYSTEM
1/1/2015 6:00 AM

1. Push the On/Off button to power up the unit. The startup screen will appear after a few seconds. Proceed to the Main Menu by pushing the center knob marked Menu/Enter.

___MAIN__MENU___
> RUN NEW SESSION <
RECALL SESSION

2. Once in the Main Menu, the RUN NEW SESSION option will be blinking. Push the Menu/Enter knob to continue.

RUN NEW SESSION
1/01/2015 6:00 AM
> SELECT LOCATION: 0 <
Not Specified

3. You can set multiple locations for different testing sites. Turn the Menu/Enter knob to change the location number then push to Enter. You can also bypass this step by pressing the Menu/Enter knob first.

RUN NEW SESSION
1/01/2015 6:00 AM
> SELECT LOCATION: 1 <
Location 1

RUN NEW SESSION
1/01/2015 6:00 AM
> SELECT INSPECTOR: 0 <
Not Specified

4. At times you may not only have multiple locations but multiple inspectors/users as well. Use the same procedure you did in step 3.

RUN NEW SESSION
1/01/2015 6:00 AM
> SELECT INSPECTOR: 1 <
Inspector A

EQUALIZATION STAGE
START:
STOP:
If Ready Press START

5. During the equalization stage the MTC-4000 automatically calibrates to the optimum sensitivity. Press the START button to initiate the process.

EQUALIZATION STAGE
START: ■■■■ |
STOP: ■■■■ |
SYSTEM EQUALIZED

TEST: 1 INJECT SALT
START: ■■■■ |
STOP: ■■■■ |
To end, hold ENTER

TEST: 1 INJECT SALT
+15.0: ■■■■ |
STOP: ■■■■ |
To end, hold ENTER

TEST: 1 INJECT SALT
+12.7: ■■■■ |
STOP: ■■■■ |
To end, hold ENTER

TEST: 1 INJECT SALT
START: ■■■■■■ |
STOP: ■■■■ |
To end, hold ENTER

TEST: 1 INJECT SALT
START: ■■■■ |
STOP: ■■■■■■ |
To end, hold ENTER

__TEST_RESULTS_MENU__
> STORE RESULTS <
EXIT

6. Once the system is equalized you will see "INJECT SALT", start and stop bargraphs, and to the right, single bar start and stop trigger points. In auto sensitivity mode, you may now inject salt water to initiate the test.

7. If the water is highly mineralized, very conductive, or contains too much salt, the MTC-4000 may not automatically equalize. The operator can manually equalize the system by pressing the Start and/or Stop Sanitrode adjust knob(s), and turning the knob(s) to the LEFT to INCREASE sensitivity or to the RIGHT to DECREASE sensitivity. The corresponding Start and Stop trigger points move to the left or right, indicating the manual change in sensitivity.

NOTE: Lumenite® recommends rinsing the holding tube with clean, unsalted water, between tests. Rinsing will normally allow repeated tests in the auto sensitivity mode, without need of manual sensitivity adjustment.

8. The saline solution is injected triggering the start counter.

9. When the salt water reaches the stop probe the counter stops ending the test. The MTC-4000 will then prompt the user to "INJECT SALT" again and start "TEST: 2". You can also exit the testing session by pressing and holding the Menu/Enter knob.

10. Upon exiting the testing session, the user will be asked if they would like to Store Results or Exit to the main menu. Rotate the Menu/Enter knob until the desired option is blinking and push the knob.



Made With Pride In The U.S.A.
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MILK TESTER PRICE SHEET revised 08-16-16

STANDARD EQUIPMENT

- A1) Model MTC-4000 stainless steel hand held battery operated milk tester control with manual and auto-calibration/equalization, dedicated user software, USB PC computer interface, battery charger cable, and protective case
- A2) 2 – Type 2DCF1.5" tri-clamp sanitrodes with two 4" long probes
- A3) 2 – Type 2DCF2" tri-clamp sanitrodes with two 4" long probes
- A4) 2 – Type 2J1.5" jacks with 10ft. of cable

- Complete price for above standard equipment (a1-a4) \$1,540.00
- List price for MTC-4000 less probes & jacks \$1,310.00

NOTE: 2.5", 3", OR 4" size probes may be substituted at no extra charge. Bevel seat connection (for hex nut and union ferrule) is also available.

LIQUID INJECTION EQUIPMENT & OTHER OPTIONAL ACCESSORIES

- B) Model SSI-003 stainless steel constructed saline solution injection apparatus less check valves and tubing (see C and D) \$418.00
- C) 2 – Type .25 x .25 stainless steel check valves \$69.00 ea.
- D) 1 – Type 10ft. of reinforced tubing with fitting for connection to SSI-003 \$34.00
- E) Type 2DCF1.5" tri-clamp or 2DAF1.5" bevel seat sanitrodes with two 4" long probes \$222.00
- F) Type 2DCF2" tri-clamp or 2DAF2" bevel seat sanitrodes with two 4" long probes \$247.00
- G) Type 2DCF2.5" tri-clamp or 2DAF2.5" bevel seat sanitrodes with two 4" long probes \$258.00
- H) Type 2DCF3" tri-clamp or 2DAF3" bevel seat sanitrodes with two 4" long probes \$278.00
- I) Type 2DCF4" tri-clamp or 2DAF4" bevel seat sanitrodes with two 4" long probes \$326.00
- J) Universal USB Car Charger for MTC-4000 \$25.00
- K) Carrying case designed to hold MTC-4000, 6 sanitrodes, 2 jacks & various other accessories \$184.00

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