

DOCUMENT TITLE: **TEST SPECIFICATION AND PROCEDURE, 2690 FLUIDICS TRAY**

SYSTEM/ASSEMBLY NAME: **ALLIANCE FLUIDIC TRAYS**

PART NUMBER AFFECTED **WAT271087, 279000255, 700001219, 700001220, 279003947**

TEST EQUIPMENT NAME: **FLUIDICS TRAY TESTER**

TEST EQUIPMENT NUMBER: **TE82523**

TEST SOFTWARE:



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DATE: **September 01, 1998**

REVISED BY: **MARK JUSSAUME**

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EQUIPMENT REQUIRED

Quantity	Part Number	Description
1	TE82523	Fluidics Tray Tester
1	NA	5/16" open end wrench

DISPOSABLES REQUIRED

Quantity	Part Number	Description
AR	NA	Nitrogen Supply (not required for 279003947 & WAT271087)

REFERENCE DOCUMENTATION

Document #	Description
735001030	Alliance QSPI Multi Degasser Perf. Spec.

DEFINITIONS AND ABBREVIATIONS

Term	Definition
AR	As Required
RPM	Revolutions Per Minute
MMHGA	Millimeter of Mercury
LSL	Lower Spec Limit
USL	Upper Spec Limit
UUT	Unit Under Test
Δ Production Support Checks (PSC)	Tests performed in support of product design specifications to assure product quality, and/or verify pre/post test conditions.

TEST SPECIFICATIONS AND TRACEABILITY MATRIX

Test #	Test Specification & Condition	Acceptance criteria	Reference
1	Vacuum at RPM switch: 47 ± 5 MMHGA	LSL = 42 MMHGA USL = 52 MMHGA	735001030 page 8
2	Time until RPM switch: 50 – 200 seconds	LSL = 50 seconds USL = 200 seconds	735001030 page 8
3	Minimum low vacuum level: 60 MMHGA	USL = 52 MMHGA	735001030 page 8

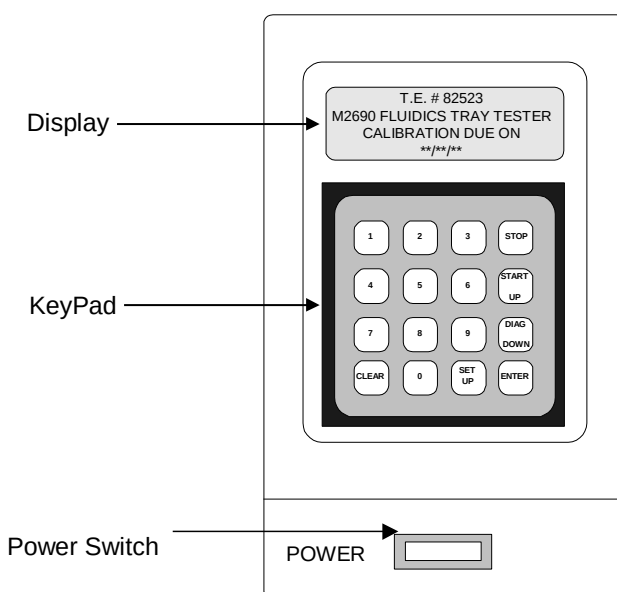
Note: In some cases, the manufacturing specification is tighter than documented (performance specification, marketing requirements, etc.)

TESTER SETUP:

NOTE: Steps 1.2 – 1.4 not applicable to 279003947 & WAT271087

- 1.1. Plug Tester into appropriate 110 to 240 Volt AC outlet.
- 1.2. Connect nitrogen source to "N2 IN", located on the rear of Tester.
- 1.3. Turn tank on and adjust tank regulator for 30 PSI.
- 1.4. Adjust tester's regulator for 9 PSI on gauge on front of tester.
- 1.5. Verify that the Test Software version listed on the cover page of this procedure matches that labeled on the tester.

2. TEST SETUP:



- 2.1. Switch "POWER" on, the display should read:

2690 CPU BOARD
INITIALIZING
PLEASE WAIT

- 2.2. Wait until tester displays:

READY TO TEST
PRESS START TO BEGIN

3. TEST:

NOTE: Steps 3.2 & 3.3 not applicable to 279003947 & WAT271087

- 3.1. Make electrical and tubing connections. [Spare trays require electrical connections only to PCB.]
- 3.2. Connect "**N2 OUT**" to common port of GPV on the UUT.
- 3.3. Connect solvent lines A, B, C, & D to the corresponding vacuum chambers on UUT.
- 3.4. Connect power, serial, & GPV cables to UUT.

3.5. Press  on Keypad, the display should read:

FOR COMPLETE TEST:
PRESS 1 [enter]
FOR DEGASSER ONLY:
PRESS 2 [enter]

 Make selection.

3.6. Press  (for 279003947 & WAT271087 select **2**, then ) and the tests will begin.

If no errors are encountered during tests, the display should read:

ALL TESTS COMPLETE
!PASSED!
!PASSED!
!PASSED!

When an error occurs, the test halts and displays the error message.

NOTES:

A) You may abort a test anytime by pressing , the display will read:

B) (Not applicable to 279003947 & WAT271087) If the nitrogen is low, testing halts and the display

reads:

NO OR LOW NITROGEN!
SET N2 SOURCE FOR 30
PSI. ADJUST SIDE REG
FOR 9 PSI ON GAUGE

THIS TEST HAS BEEN
STOPPED! FIX PROBLEM
& RESET OR CONNECT
A NEW UNIT FOR TEST.