

Stripixel Detector

Some Basic Checks for Stripixel Ladder leaks
Nitrogen Test and investigation

Robert Pisani and Rachid Nouicer

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Ladder test at the Chemistry lab.
Using Compressed Nitrogen

Leak Test at Lab

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- Compressed Nitrogen Ladder Test at the Chemistry Lab.

EAST VTX-Stripixel Barrel #3; Good= 5 and Bad = 7

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (min.)	Final pressure (PSI)	Status
1 (SWL4U)	B3L11 (4E12 outer radius)	20	05	2.5	Bad
	B3L10 (4E13 mid radius)	20	10	20	Good
	B3L09 (4E14 inner radius)	20	10	19.8	Good
	B3L08 (4E15 outer radius)	20	10	4.8	Bad
2 (SWL4M)	B3L07 (4E16 mid radius)	20	05	1.25	Bad
	B3L06 (4E17 inner radius)	20	10	19.25	Good
	B3L05 (4E18 outer radius)	20	10	20	Good
	B3L04 (4E19 mid radius)	20	10	20	Good
3 (SWL4L)	B3L03 (4E20 inner radius)	20	10	14.5	Bad
	B3L02 (4E21 outer radius)	20	10	5	Bad
	B3L01 (4E22 mid radius)	20	10	14	Bad
	B3L00 (4E23 inner radius)	20	10	13	Bad

Cooling Loop test at the Chemistry lab. Using Compressed Nitrogen

Note: each loop has 4 ladders

Leak Test at **Lab**: Using Compressed Nitrogen 5

- **Test at the Chemistry Lab**
- **EAST VTX-Stripixel Barrel #2**

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (minutes)	Final pressure (PSI)	Status	Comment
1 (SEL3U)	B2L08 B2L09 B2L10 B2L11	20	10	20	Good	
2 (SEL3L)	B2L12 B2L13 B2L14 B2L15	20	10	19	Good	

Leak Test at **Lab**: Using Compressed Nitrogen 6

- **Test at the Chemistry Lab**
 - **EAST** VTX-Stripixel Barrel #3

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (minutes)	Final pressure (PSI)	Status	Comment
1 (NEL4U)	B3L12 B3L13 B3L14 B3L15	20	10	0	Bad	
2 (NEL4M)	B3L16 B3L17 B3L18 B3L19	20	10	0	Bad	
3 (NEL4L)	B3L20 B3L21 B3L22 B3L23	20	10	2.5	Bad	

Cooling Loop test at the PHENIX IR Using Compressed Nitrogen

Note: each loop has 4 ladders

Leak Test at IR: Using Compressed Nitrogen 8

- **West VTX-Stripixel Barrel #2**

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (minutes)	Final pressure (PSI)	Status	Comment
1 (NWL3U)	B2L07 B2L06 B2L05 B2L04	20	10	19	Good	1psi diff.: can be just a bad connection in cooling tubes out side VTX
2 (NWL3L)	B2L03 B2L02 B2L01 B2L00	20	10	20	Good	

Leak Test at IR: Using Compressed Nitrogen 9

- **EAST** VTX-Stripixel Barrel #2

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (minutes)	Final pressure (PSI)	Status	Comment
1 (SEL3U)	B2L08 B2L09 B2L10 B2L11	20	10	19	Good	
2 (SEL3L)	B2L12 B2L13 B2L14 B2L15	20	10	18.75	Good	can be just a bad connection in cooling tubes out side VTX

Leak Test at IR: Using Compressed Nitrogen 10

- **West VTX-Stripixel Barrel #3**

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (minutes)	Final pressure (PSI)	Status	Comment
1 (SWL4U)	B3L11 B3L10 B3L09 B3L08	20	10	06	Bad	
2 (SWL4M)	B3L07 B3L06 B3L05 B3L04	20	10	20	Good	
3 (SWL4L)	B3L03 B3L02 B3L01 B3L00	20	10	20	Good	

Leak Test at IR: Using Compressed Nitrogen 11

- **EAST VTX-Stripixel Barrel #3**

Cooling Loop	Ladders	Initial Pressure (PSI)	Time ΔT (minutes)	Final pressure (PSI)	Status	Comment
1 (NEL4U)	B3L12 B3L13 B3L14 B3L15	20	10	10	Bad	
2 (NEL4M)	B3L16 B3L17 B3L18 B3L19	20	10	9	Bad	
3 (NEL4L)	B3L20 B3L21 B3L22 B3L23	20	10	16	Bad	