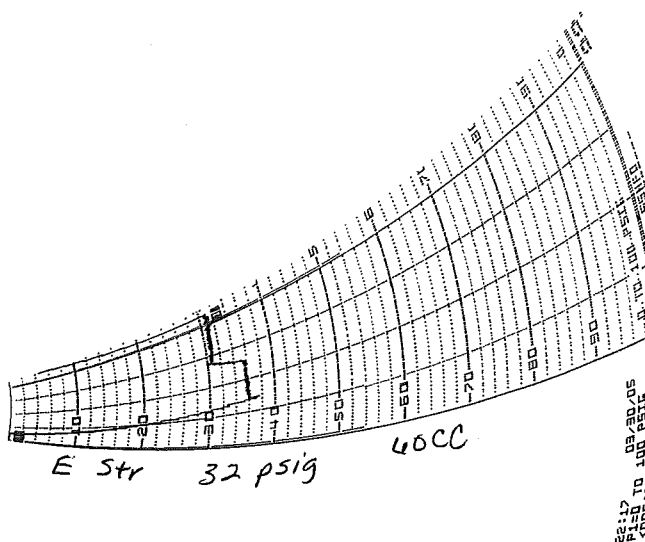
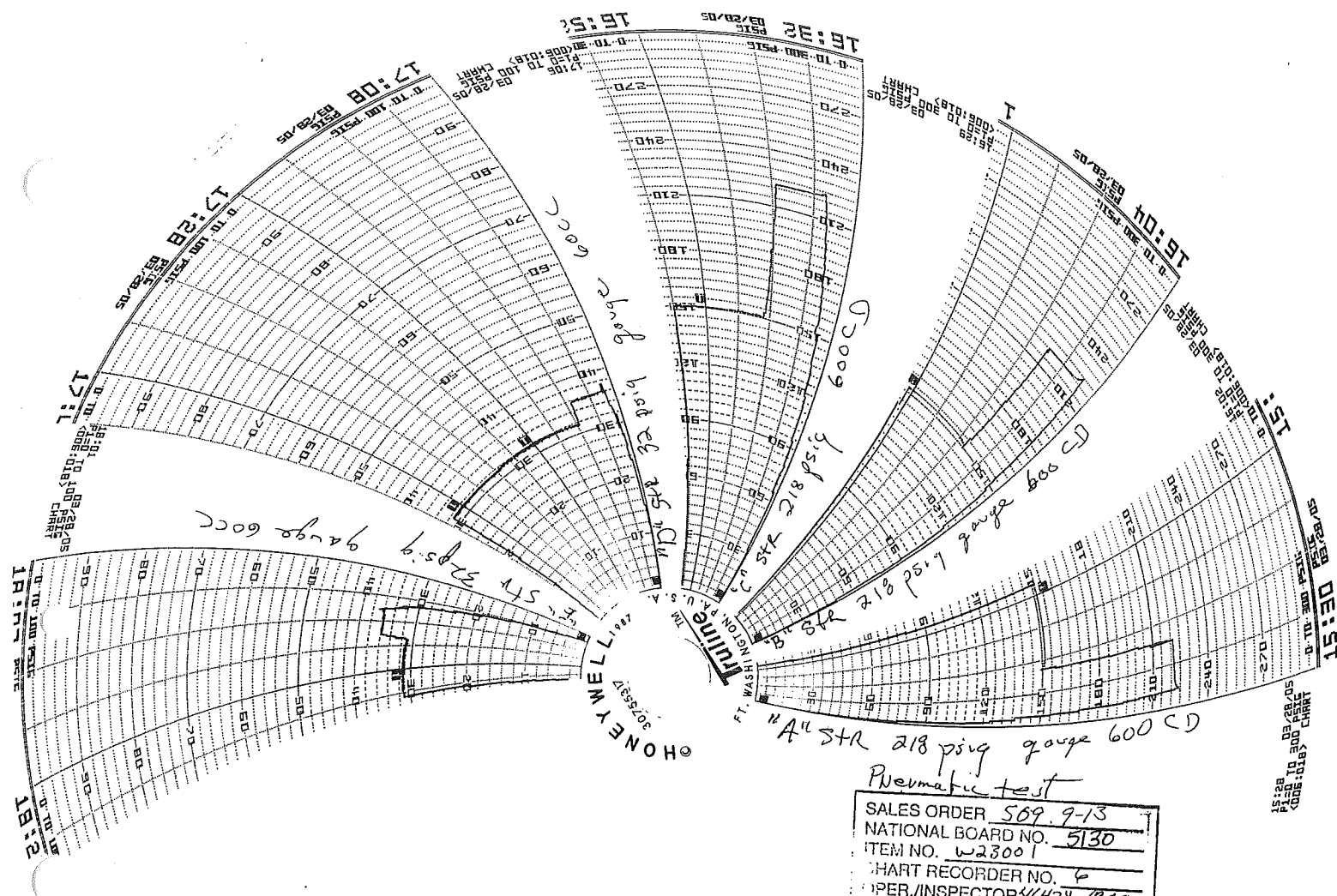


SALES ORDER 509.9-13
 NATIONAL BOARD NO. 5130
 ITEM NO. 15771A
 CHART RECORDER NO. 5
 OPER./INSPECTOR 46447-SV
 DATE 3-25-05

Hydro



Pneumatic



SALES ORDER 569.9-13	
NATIONAL BOARD NO. 5130	
ITEM NO. W23001	
CHART RECORDER NO. 6	
OPER./INSPECTOR YK424/RESO	
DATE 3-28-65	



Chart Heat Exchangers
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HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.9-13

DRAWING NO. 15771A Rev. B

1. STREAM UNDER VACUUM C

2. STREAM VACUUM VALUE 25 MICRONS

3. STREAM WITH HELIUM A BACKGROUND 4.25×10^{-8}

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START N/A

END N/A

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1.0×10^{-3} STD CC/SEC

5. TEST TIME: 20 MINUTES

6. RESULT: C to A STREAM = 1.15×10^{-7} STD - CC/SEC

7. TEST COMPLETION DATE: 3-29-05 OPERATOR: 46416

8. MASS SPECTROMETER IDENTIFICATION #: EDWARDS II

CALIBRATED LEAK. SERIAL #: 7161054 LEAK RATE OF STD: 1.1×10^{-7} std cc/sec

RECALIBRATION DATE: 9.05 DISPLAYED LEAK: 1.12×10^{-7} std cc/sec

@ 75 °F

Rev. 10/23/03
3/29/00

Gerald A. Bonsack
Sr. Principle Mfg. Engineer
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HELIUM LEAK TEST REPORT

SALES ORDER NO. 529.7-13

DRAWING NO. 15771A Rev. B

1. STREAM UNDER VACUUM D

2. STREAM VACUUM VALUE 26 MICRONS

3. STREAM WITH HELIUM A BACKGROUND 1.12×10^{-8}

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START N/A

END N/A

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1.0×10^{-3} STD CC/SEC

5. TEST TIME: 20 MINUTES

6. RESULT: D to A STREAM = 1.45×10^{-8} STD - CC/SEC

7. TEST COMPLETION DATE: 3-29-05 OPERATOR: 46416

8. MASS SPECTROMETER IDENTIFICATION #: EDWARDS II

CALIBRATED LEAK SERIAL #: 7161054 LEAK RATE OF STD: 1.1×10^{-7} std cc/sec

RECALIBRATION DATE: 9.05 DISPLAYED LEAK: 1.12×10^{-7} std cc/sec

@ 75 °F

Rev. 10/23/03
3/29/00

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HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.9-13

DRAWING NO. 15771A Rev B

1. STREAM UNDER VACUUM C

2. STREAM VACUUM VALUE 25 MICRONS

3. STREAM WITH HELIUM B BACKGROUND 4.05×10^{-8}

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START N/A

END N/A

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1.0×10^{-3} STD CC/SEC

5. TEST TIME: 20 MINUTES

6. RESULT: C TO B STREAM = 1.52×10^{-7} STD - CC/SEC

7. TEST COMPLETION DATE: 3.29.05 OPERATOR: ABZ/LG

8. MASS SPECTROMETER, IDENTIFICATION #: EDWARDS TL

CALIBRATED LEAK, SERIAL #: 7161054 LEAK RATE OF STD: 6.1×10^{-7} std cc/sec

RECALIBRATION DATE: 9.05 DISPLAYED LEAK: 1.08×10^{-7} std cc/sec

@ 75 °F

Rev. 10/23/03
3/29/06

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HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.9-13

DRAWING NO. 15771A Rev. B

1. STREAM UNDER VACUUM D

2. STREAM VACUUM VALUE 27 MICRONS

3. STREAM WITH HELIUM B BACKGROUND 2.08×10^{-8}

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START N/A

END N/A

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1.0×10^{-3} STD CC/SEC

5. TEST TIME: 20 MINUTES

6. RESULT: D to B STREAM = 2.18 $\times 10^{-8}$ STD - CC/SEC

7. TEST COMPLETION DATE: 3.29.05 OPERATOR: 46416

8. MASS SPECTROMETER IDENTIFICATION #: EDWARDS II

CALIBRATED LEAK. SERIAL #: 7161054 LEAK RATE OF STD: 1.1×10^{-7} std cc/sec

RECALIBRATION DATE: 9.05 DISPLAYED LEAK: 1.08×10^{-7} std cc/sec

@ 75 °F

Rev. 10/23/03
3/29/00

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HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.9-13

DRAWING NO. 15771A Rev. B

1. STREAM UNDER VACUUM D

2. STREAM VACUUM VALUE 28 MICRONS

3. STREAM WITH HELIUM C BACKGROUND 1.42×10^{-8}

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START N/A

END N/A

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1.0×10^{-3} STD CC/SEC

5. TEST TIME: 20 MINUTES

6. RESULT: D TO C STREAM = 1.85×10^{-8} STD - CC/SEC

7. TEST COMPLETION DATE: 3-29-05 OPERATOR: 46416

8. MASS SPECTROMETER, IDENTIFICATION #: EDWARDS II

CALIBRATED LEAK, SERIAL #: 7161054 LEAK RATE OF STD: 1.1×10^{-7} std cc/sec

RECALIBRATION DATE: 9.05 DISPLAYED LEAK: 1.15×10^{-7} std cc/sec

@ 77 °F

Rev. 10/23/03
3/29/00

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HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.9-13

DRAWING NO. 15771A Rev. B

1. STREAM UNDER VACUUM E

2. STREAM VACUUM VALUE 26 MICRONS

3. STREAM WITH HELIUM D BACKGROUND 1.42×10^{-8} STD CC/SEC

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START N/A

END N/A

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1.0×10^{-3} STD CC/SEC

5. TEST TIME: 20 MINUTES

6. RESULT: E STREAM = 7.0 $\times 10^{-8}$ STD - CC/SEC

7. TEST COMPLETION DATE: 3-30-05 OPERATOR: 46359

8. MASS SPECTROMETER, IDENTIFICATION #: EPL-11125.11

CALIBRATED LEAK, SERIAL #: 7161054 LEAK RATE OF STD: 1.1×10^{-7} std cc/sec

RECALIBRATION DATE: 9-9-05 DISPLAYED LEAK: 1.12×10^{-7} std cc/sec

@ 78 °F

Rev. 10/23/03
3/29/00

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This letter certifies that the Core as identified has been cleaned and inspected for oxygen services per Chart Standard Engineering Specification Section 9 No. 9-14.00.

Sales Order 609, 9-13 Core No. _____

National Board No. 5180 Core Serial No. 609, 9-13

Chart Inspector [Signature]

Date Inspected 3-31-05

CHART HEAT EXCHANGER L.P.

QUALITY DEPARTMENT

- (1) Attach White Original to Core Nameplate
- (1) One Copy to Quality Files

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