



Chart Heat Exchangers
Chart Industries, Inc.

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HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.4-5

DRAWING NO. 15775 A Rev. B

1. STREAM UNDER VACUUM A

2. STREAM VACUUM VALUE 18 MICRONS

3. STREAM WITH HELIUM B BACKGROUND 1.50×10^{-9}

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: A TO B STREAM = 2.0 $\times 10^{-9}$ STD - CC/SEC

7. TEST COMPLETION DATE: 4-14-05 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: 1.05×10^{-7} std cc/sec

@ 76 °F

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

Gerald A. Bonsack
Sr. Principle Mfg. Engineer

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