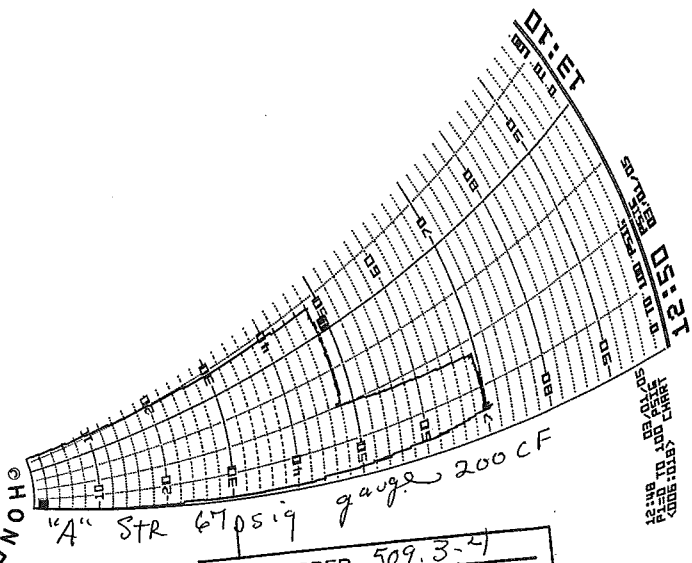


FT. WASHINGTON, PA. U.S.A.  
Honeywell  
3075537

HONEYWELL  
1987



SALES ORDER 509.3-4  
NATIONAL BOARD NO. 5105  
ITEM NO. W40001  
CHART RECORDER NO. 6  
OPER./INSPECTOR 1353/REO  
DATE 3-01-05

Pneumatic



Chart Heat Exchangers  
Chart Industries, Inc.

2191 Ward Avenue, La Crosse, WI 54601 USA  
Phone: 608.787.3333 Fax: 608.787.2226  
www.chart-ind.com

## HELIUM LEAK TEST REPORT

SALES ORDER NO. 509.3-4

DRAWING NO. 15773A Rev. A

1. STREAM UNDER VACUUM A

2. STREAM VACUUM VALUE 25 MICRONS

3. STREAM WITH HELIUM B-EXT. BACKGROUND  $2.10 \times 10^{-7}$  STD CC/SEC

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START 20%

END 25.4%

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

5. TEST TIME: 60 MINUTES

6. RESULT: A to B-EXT STREAM = 1.08  $\times 10^{-7}$  STD - CC/SEC

7. TEST COMPLETION DATE: 2-22-05 OPERATOR: 46416

8. MASS SPECTROMETER, IDENTIFICATION #: EDWARDS II

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

RECALIBRATION DATE: 9.05 DISPLAYED LEAK:  $1.28 \times 10^{-7}$  std cc/sec

@ 76 °F



Heat Exchangers Division  
Chart Industries, Inc.

2191 Ward Avenue  
La Crosse, WI 54601 USA  
Phone: 608.787.3333 Fax: 608.787.2141  
www.altec-intl.com

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 509.3-4 Core No. \_\_\_\_\_  
National Board No. 5105 Core Serial No. 509.3-4  
Chart Inspector Ed Hunk  
Date Inspected 3-4-05

CHART HEAT EXCHANGER L.P.

QUALITY DEPARTMENT

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

Chart Heat Exchangers L.P. is a wholly owned subsidiary of Chart Industries, Inc.