

PNEUMATIC TEST

SALES ORDER	509,56
NATIONAL BOARD NO.	5131
ITEM NO.	443002
CHART RECORDER NO.	12
OPER./INSPECTOR	46287/12
DATE	3-31-05



Chart Heat Exchangers
Chart Industries, Inc.

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HELIUM LEAK TEST REPORT

SALES ORDER NO. 50915-6

DRAWING NO. 15774A Rev A

1. STREAM UNDER VACUUM B

2. STREAM VACUUM VALUE 18 MICRONS

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

FOR EXTERNAL TESTS, HELIUM CONCENTRATION START _____

END _____

4. ACCEPTABLE LEAK RATE
(FROM ASSY. DRAWING) 1×10^{-3}

5. TEST TIME: 20 MINUTES

6. RESULT: B to A STREAM = 1.12×10^{-8} STD - CC/SEC

7. TEST COMPLETION DATE: 3/25/05 OPERATOR: 46424

8. MASS SPECTROMETER IDENTIFICATION #: Edwards FF

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

RECALIBRATION DATE: 9/9/05 DISPLAYED LEAK: 1.22×10^{-7} std cc/sec

@ 82° °F

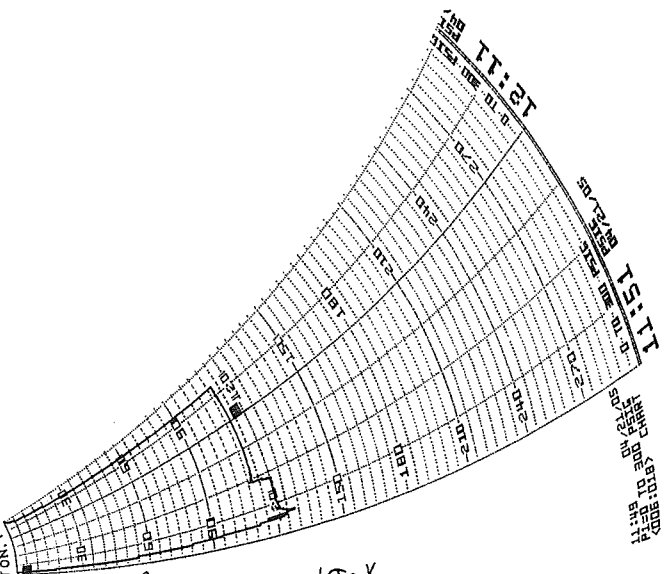
Rev. 10/23/03
3/29/00

Gerald A. Bonsack
Sr. Principle Mfg. Engineer

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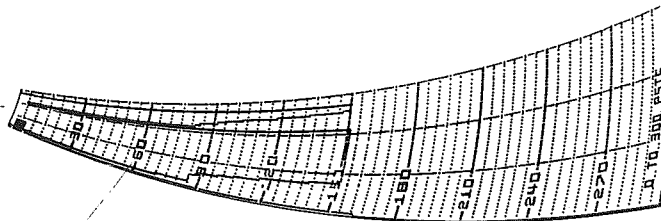
TM
Iruline
FT. WASHINGTON, PA



A-STR Battery/Tank
Pneumatic Test

SALES ORDER	509-6-7
NATIONAL BOARD NO.	5151/5131
ITEM NO.	W43002 F B43001
CHART RECORDER NO.	6
OPER./INSPECTOR	46363 / PJ
DATE	4-21-05

Chart 1061



Hydro-Tank

SALES ORDER	509. 7-B
NATIONAL BOARD NO.	551
ITEM NO.	B43001
CHART RECORDER NO.	1
OPER./INSPECTOR	4647/31
DATE	4-11-05

100%
75%
50%
25%
0%
BT:19