

Received 3/15/12 from Robert Lillianfeld at Janis (see e-mail correspondence on last page of this doc):

Comments (3/16/12):

-- I designed and ordered this unit from Janis in early 1965 (I think), to examine reflectivity shifts due to temperature, and particularly wrt differential thermal expansion coefficients between substrate/thin films. This was the beginning of "strained lattice tuning," which has become a tool in semiconductor device fabrication.

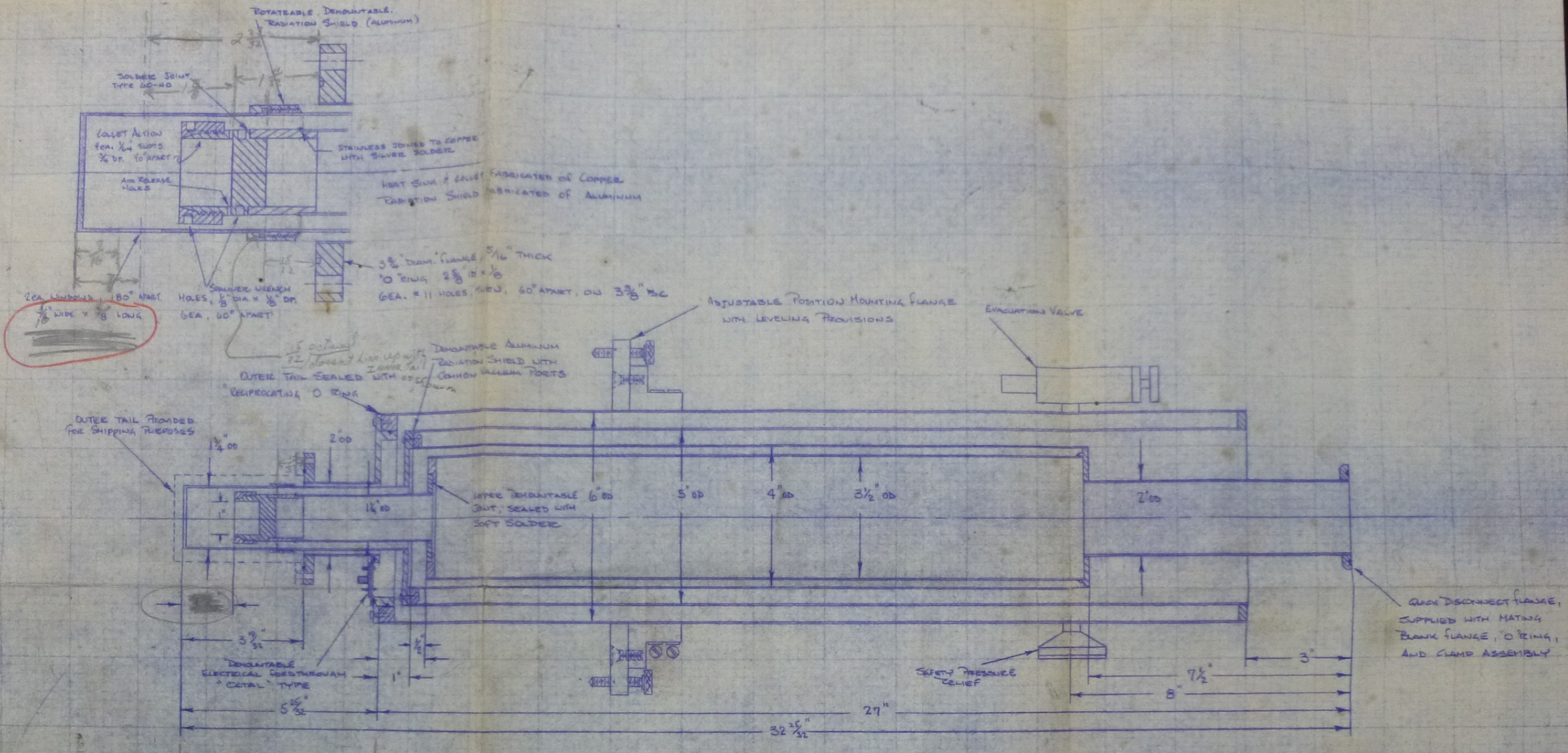
-- I recall I only ran a few "tests" on this unit during my "two month post-doc" stint the summer of 1965. I believe the dewar was used extensively by Bill Paul's students who inherited my lab thereafter.

GD T w/ COLLET HEAT SINK

PAUL GRANT

HARVARD

038



Dimensions from optical center line *all taken from Raytheon Drawing*

Base of flange very important (2 3/32)
also from bottom of collect
 HELIUM CAPACITY: 150ML PER INCH OF DEPTH, CAPACITY (RECOMMENDED) 2 1/4 LITERS
 H₂ CAPACITY: 3 LITERS

BODY LENGTH DIMENSIONS ± 1/32
 TAIL ASSEMBLY DIMENSIONS, AS PER SUPPLIED PRINTS

6" OD DETACHABLE TAIL RESEARCH DEWAR
 WITH
 SPECIAL OPTICAL TAIL ASSEMBLY

JANIS RESEARCH COMPANY
 21 SPENCER STREET
 STONEHAM, MASS.

Drawing No. 1-16-4A
 1/8" SCALE

Oxford
 No. RT54
 2007