

World s largest vacuum chamber

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Data is acquired at the vacuum chamber via the Mobile Data Acquisition System (MDAS), a 256-channel high-speed digital system, and a low speed data acquisition system which collects both temperature data, vacuum instrumentation, and power controller parameters.

The east side of the chamber has a large rolling door and hinged door to provide access to the chamber up to 10.5 m (34.5 ft) in width. A 5.5-m-wide by 4.2-m-high (18- by 14-ft) door is located on the west side of the chamber for loading equipment when the vacuum chamber is occupied.

The MVF system design uses a large aluminum table approximately 6.7 m (22 ft) in diameter with a 0.61-m (2-ft) wide annular mounting surface centered about a 5.5-m (18-ft) nominal diameter. Table weight is partially off-loaded from the system via four inflatable airbags.

1. NIST TN-1558 – An electromagnetic evaluation of the NASA space power facility at Neil A. Armstrong Test Facility (ATF) — <https://archive/details/electromagnetice1558koep>
3. IEC 61000-4-21:2011 – Electromagnetic compatibility (EMC) – Part 4-21: Testing and measurement techniques – Reverberation chamber test methods — <https://webstore.iec/publication/4191>

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