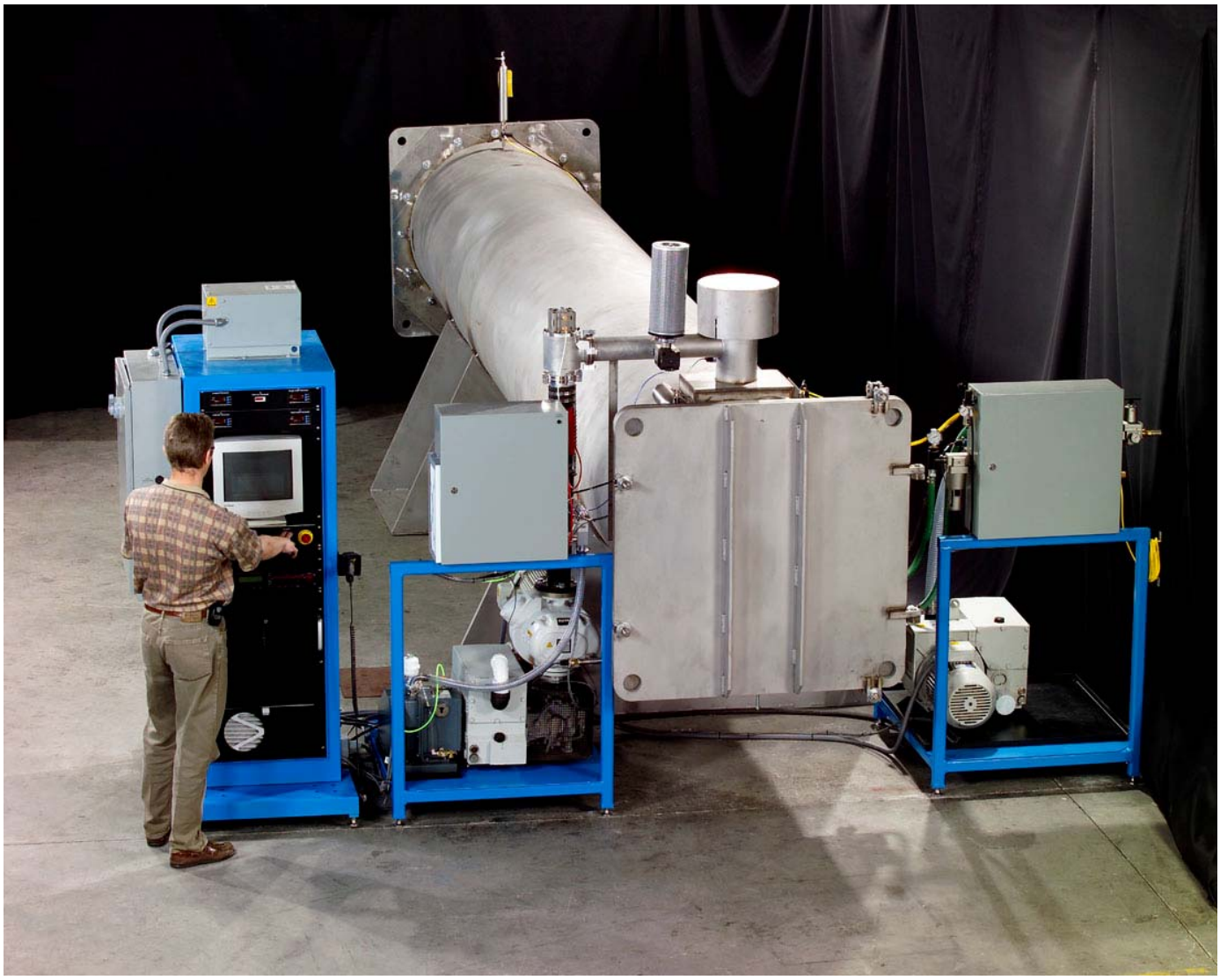
System Example 24

MISSILE CANISTER LEAK TEST SYSTEM



This charge-in-chamber system uses the "inside-out" method to Helium leak test missile canisters. The carbon fiber composite missile canister is used to store, transport, and launch a surface-to-air missile. Prior to loading the missile round into the canister, the canister is leak tested in this system.

The stainless steel vacuum chamber has a nominal internal diameter of 38" and length of 23 feet. The inside of the chamber is equipped with a track and trolley system to allow the cylindrical missile canister to be loaded and unloaded for testing. The missile canister is charged with Helium and leak tested to 6.5 x 10^{-5} atm-cc/sec in a 15 minute cycle.

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