

Re: Airship to Orbit question

Source: <http://sci.tech--archive.net/Archive/sci.space.tech/2005-12/msg00026.html>

- *From:* dg@xxxxxxxxxxxxxx (David Given)
 - *Date:* Tue, 20 Dec 2005 15:06:58 GMT
-

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

In article <1134957830.496632.113430@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, "beanstalkr" <navigaiter2002@xxxxxxx> writes:

- > It's neither. It's not crazy and it's not possible with any balloon
- > current flight profile. Vacuum is cheaper than helium. But most people
- > don't realize the implosive force of one bar on a vacuum container. A
- > bar is 14.7 pounds per square inch, multiplied by the hundreds of
- > thousands of square inches on the surface of a large lifting tank.

It also doesn't help much --- hydrogen has about 1/18 the density of air at a given pressure. Vacuum, of course, has 0/18 the density of air. So by using a vacuum balloon, you end up making your life considerably more complex for only an extra 6% boost in lifting capability.

-- --

+-- David Given --McQ--+
| dg@xxxxxxxxxxxx | Quidquid latine dictum sit, altum viditur.
| (dg@xxxxxxxxxxxx) |
+-- www.cowlark.com ---+

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.1 (GNU/Linux)

iD8DBQFDqB4rf9E0noFvlzgRAtg0AJ9XeyJdkKrmHDA4T22r2Ux9MeNJIgCgk5oM
qEBYGp+Hx1pgvNLsyIF7wCk=
=AHSN

-----END PGP SIGNATURE-----

.

- *References:*
 - ◆ [*Airship to Orbit question*](#)
 - ◇ *From:* Chance
 - ◆ [*Re: Airship to Orbit question*](#)
 - ◇ *From:* beanstalkr
- Prev by Date: [*Re: LOX/H2 jumbo jets?*](#)

Re: Airship to Orbit question

- Next by Date: ***Re: booster propeller***
- Previous by thread: ***Re: Airship to Orbit question***
- Next by thread: ***Airship to Orbit question***
- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***