

Hamilton Sundstrand Space Suit



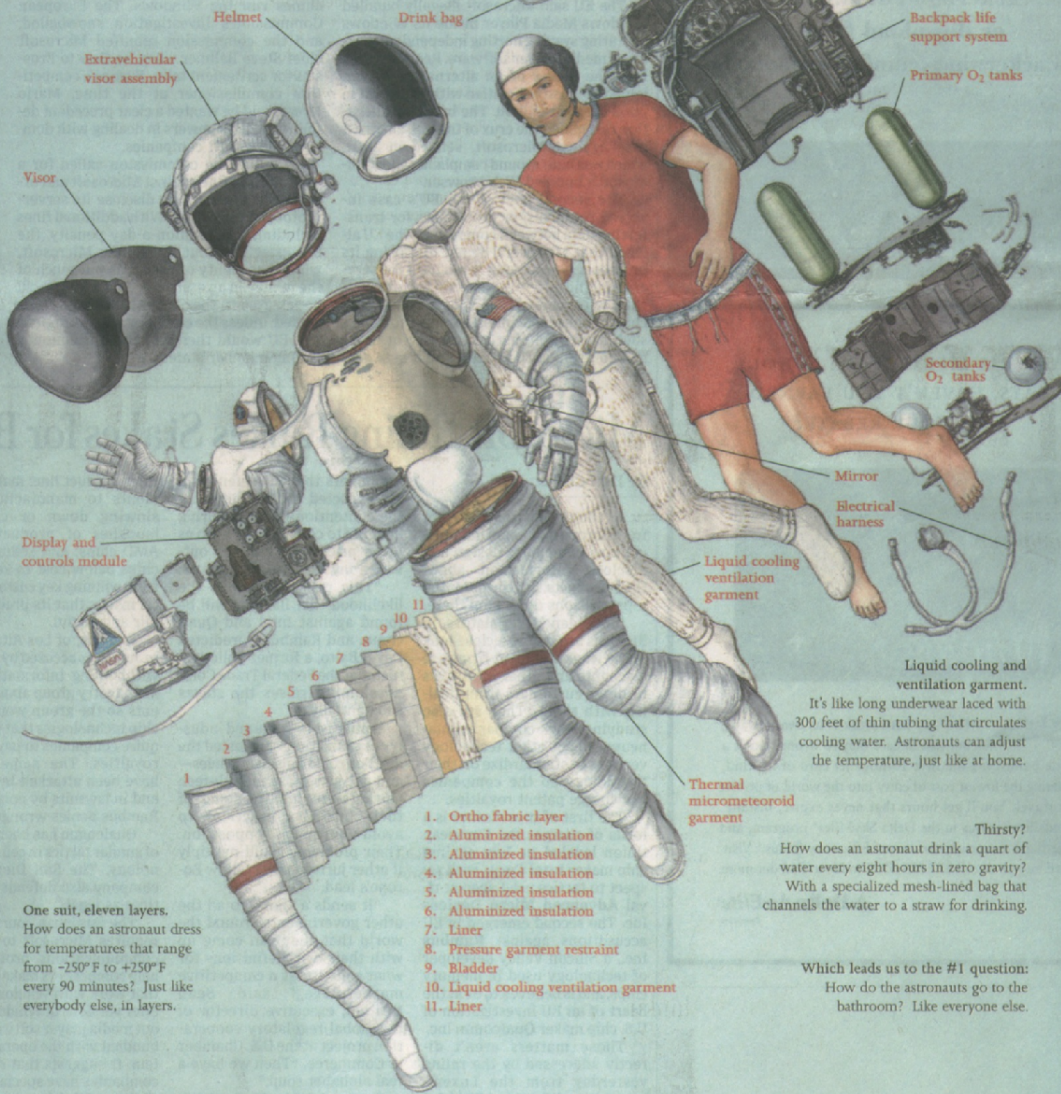
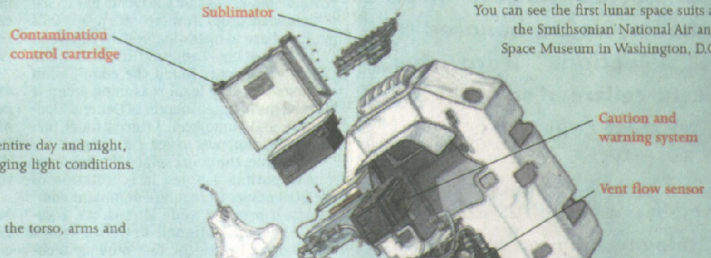
Hamilton Sundstrand's space suit (aka Extravehicular Mobility Unit) is the world's smallest spacecraft, with everything an astronaut needs to stay alive: oxygen, water, temperature control and CO₂ removal. We use 18,000 parts to protect astronauts, including a puncture-resistant outer layer to protect from micrometeoroids traveling at 17,000 miles per hour.

Vital signs. The suit tracks and displays fundamental life support data. Some controls are printed backward to enable easier reading through a mirror attached to the astronaut's forearm. It's amazing what you think of when you really care.

And you think time flies. It takes only 90 minutes to orbit through an entire day and night, so helmets have three visors to adjust to changing light conditions.

Styling. We don't provide colors or other choices, but the torso, arms and legs are sized to fit individual astronauts.

Where the Apollo 11 space suits have landed. You can see the first lunar space suits at the Smithsonian National Air and Space Museum in Washington, D.C.



One suit, eleven layers. How does an astronaut dress for temperatures that range from -250° F to +250° F every 90 minutes? Just like everybody else, in layers.

1. Ortho fabric layer
2. Aluminized insulation
3. Aluminized insulation
4. Aluminized insulation
5. Aluminized insulation
6. Aluminized insulation
7. Liner
8. Pressure garment restraint
9. Bladder
10. Liquid cooling ventilation garment
11. Liner

Liquid cooling and ventilation garment. It's like long underwear laced with 300 feet of thin tubing that circulates cooling water. Astronauts can adjust the temperature, just like at home.

Thirsty? How does an astronaut drink a quart of water every eight hours in zero gravity? With a specialized mesh-lined bag that channels the water to a straw for drinking.

Which leads us to the #1 question: How do the astronauts go to the bathroom? Like everyone else.

COULD IT EVEN PROTECT YOU FROM CHANGING ECONOMIC CONDITIONS?

Maybe. Take a closer look at a balanced company, spanning industries and geographies, with a record of total shareholder return that's about as high altitude as our space suit and more than two and a half times that of either the Dow Industrials™ or S&P 500® over the last decade. United Technologies, where we like precision in our products and results. Learn more at utc.com/curious.

