



WATER RECYCLING 101

SWEAT

1

00:00:00,000 --> 00:00:03,000

What percentage of water is recycled on space station?\h

2

00:00:03,516 --> 00:00:07,516

We recycle about 90% of all our water that's on station.\h

3

00:00:08,556 --> 00:00:12,000

We also collect water from the breath and sweat of the astronauts.

4

00:00:12,621 --> 00:00:16,000

What systems recover the water and the urine in space?

5

00:00:16,689 --> 00:00:20,000

We have the urine processor and the water processor.

6

00:00:21,350 --> 00:00:23,053

How did you collect sweat to test the system?

7

00:00:23,253 --> 00:00:25,253

We have our very own exercise room.

8

00:00:26,179 --> 00:00:28,179

Who used the exercise room?

9

00:00:28,438 --> 00:00:31,800

We had Marshall volunteers who would come exercise for an hour.

10

00:00:32,869 --> 00:00:35,000

What kind of exercise did they do?

11

00:00:35,120 --> 00:00:39,000

We had them exercise on treadmills, bicycles and ellipticals.\h

12
00:00:39,559 --> 00:00:41,559
When they finished exercising, what then?\h

13
00:00:41,995 --> 00:00:45,000
They hung their clothes to dry, so the moisture would evaporate.

14
00:00:45,560 --> 00:00:46,671
So, what does it taste like?\h

15
00:00:46,871 --> 00:00:48,667
Like water.\h

16
00:00:48,867 --> 00:00:50,867
Where was the Urine Processor built?

17
00:00:51,180 --> 00:00:54,000
Right here at NASA Marshall, in Alabama.

18
00:00:54,813 --> 00:00:57,813
How will this technology benefit the journey to Mars?

19
00:00:58,114 --> 00:01:00,800
We can't send people to Mars without life support systems.\h