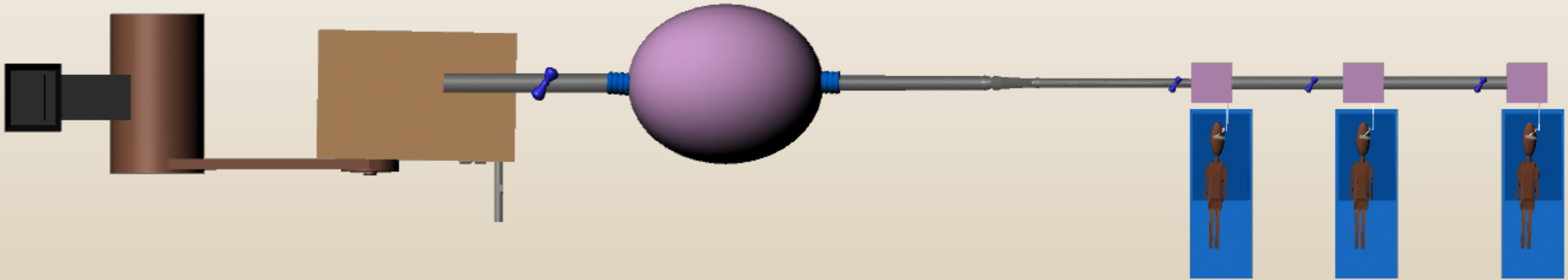


OXYGEN PRODUCTION WITH OR WITH OUT ELECTRICITY

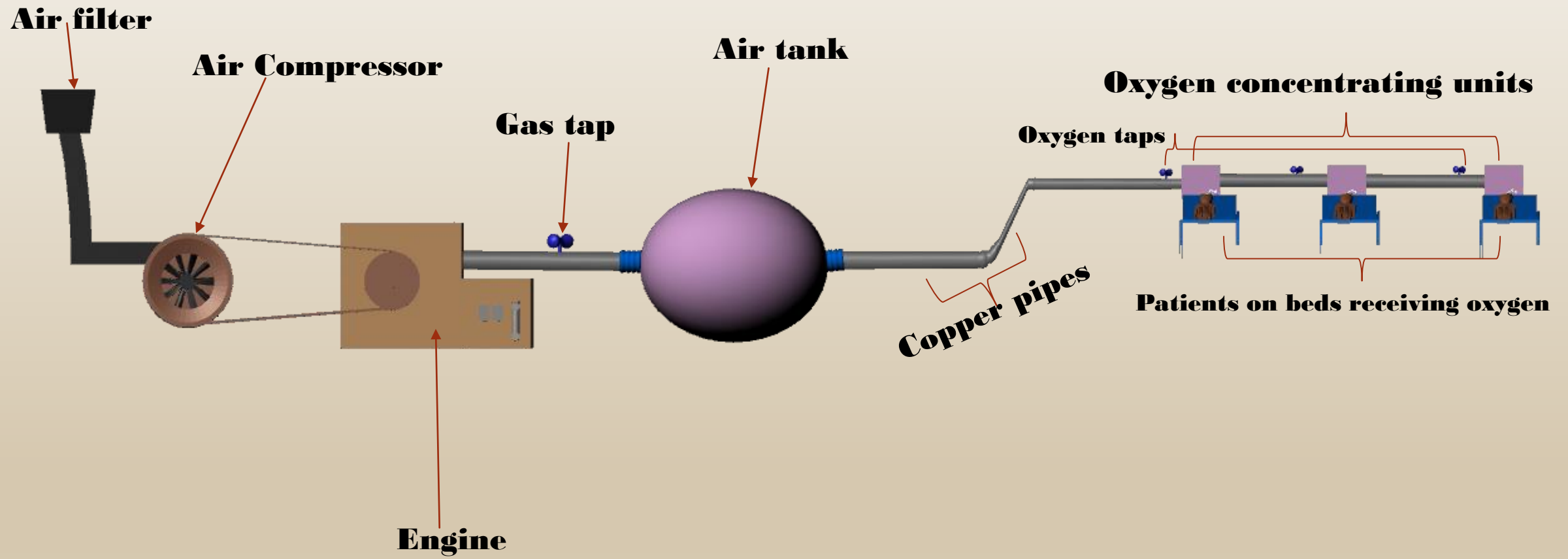
As a biomedical Engineering Technician who moves around the country I have realized that oxygen is one of the biggest challenges in this country with most hospitals and Health Centers depending on oxygen Cylinders or sometimes non.

The big challenge with the use of cylinders is that we have the oxygen manufacturing plants only in Kampala and therefore it becomes expensive for hospitals and health centers which are far from Kampala to acquire the gas .Take an example of a hospital in Kisoro travelling all the way from there just to purchase oxygen in Kampala of which this gas will not last for more than a week. Is it cost effective ? In addition, most people who find it difficult to buy the cylinders from Kampala would end up purchasing the oxygen concentrators but power is also another challenge . As a creative and an innovative Biomedical Engineering Technician I have been looking for the ways to overcome this problem that is why have come up with my oxygen concentrating machine which can give out oxygen even in areas with no electricity



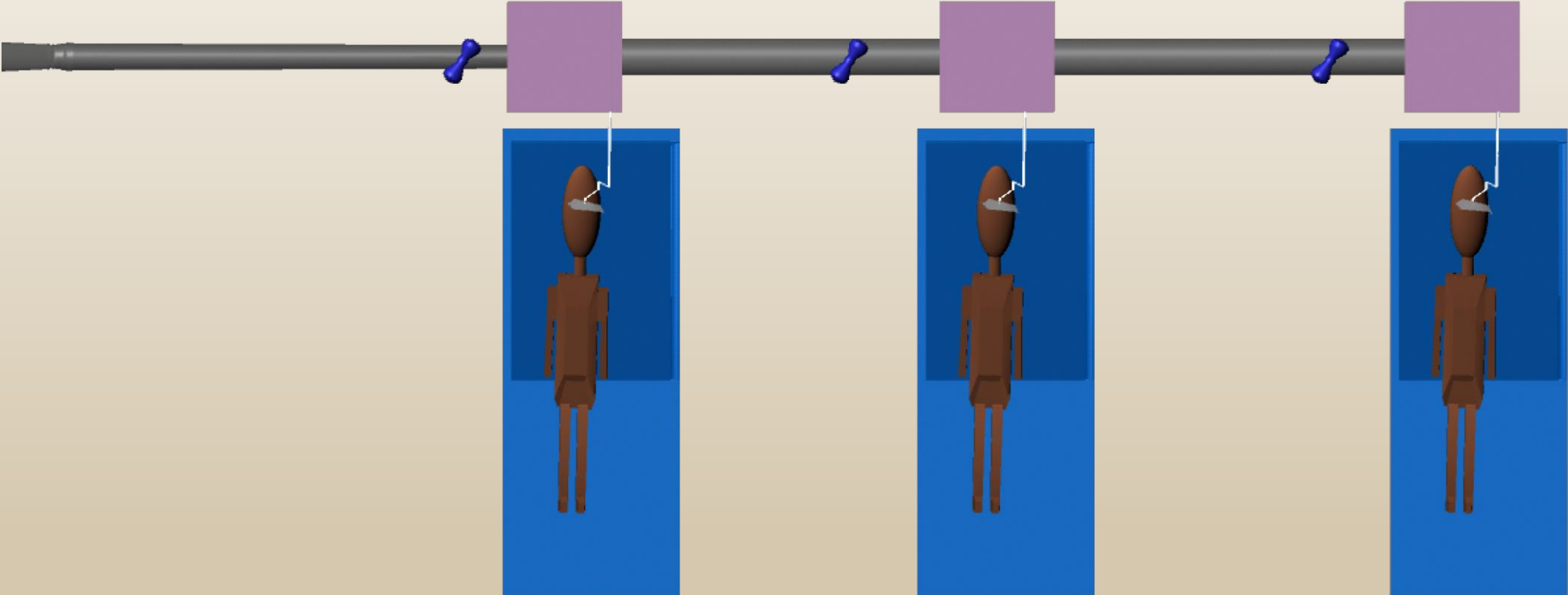
OXYGEN PRODUCTION

USING AN ENGINE

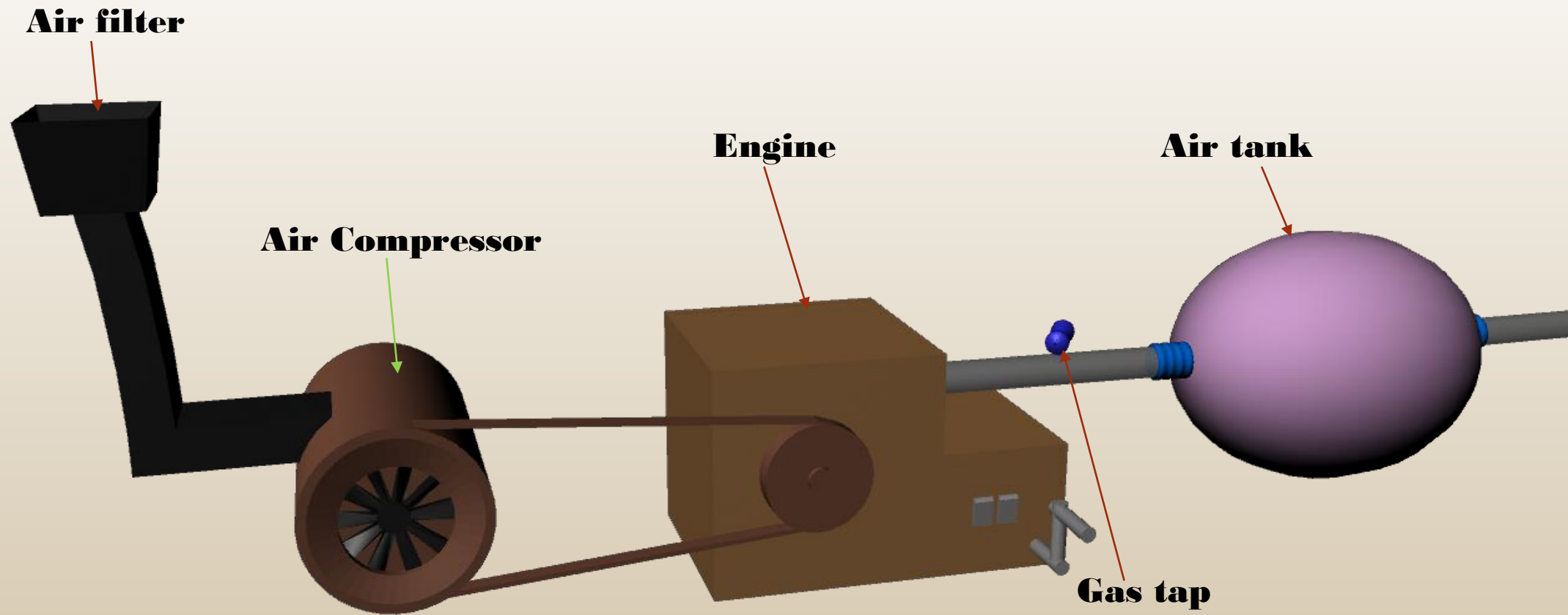


Oxygen taps

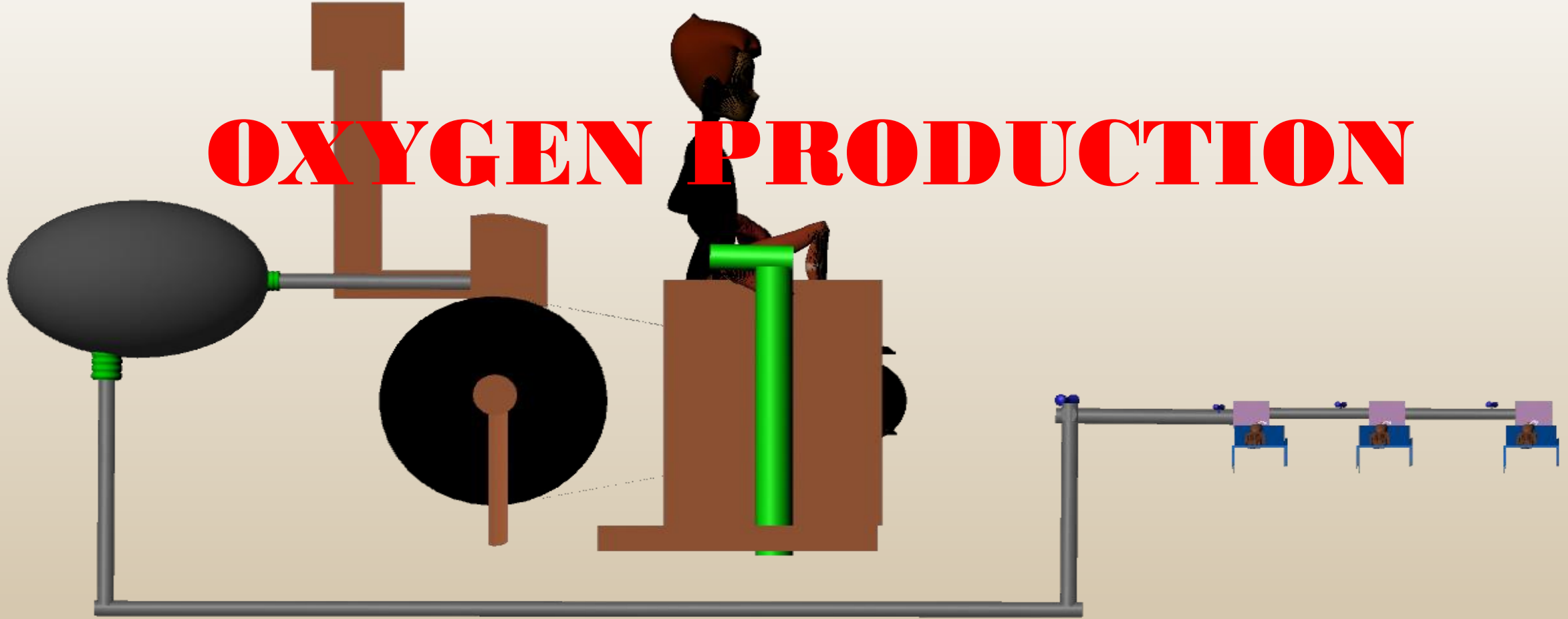
Oxygen concentrating unit



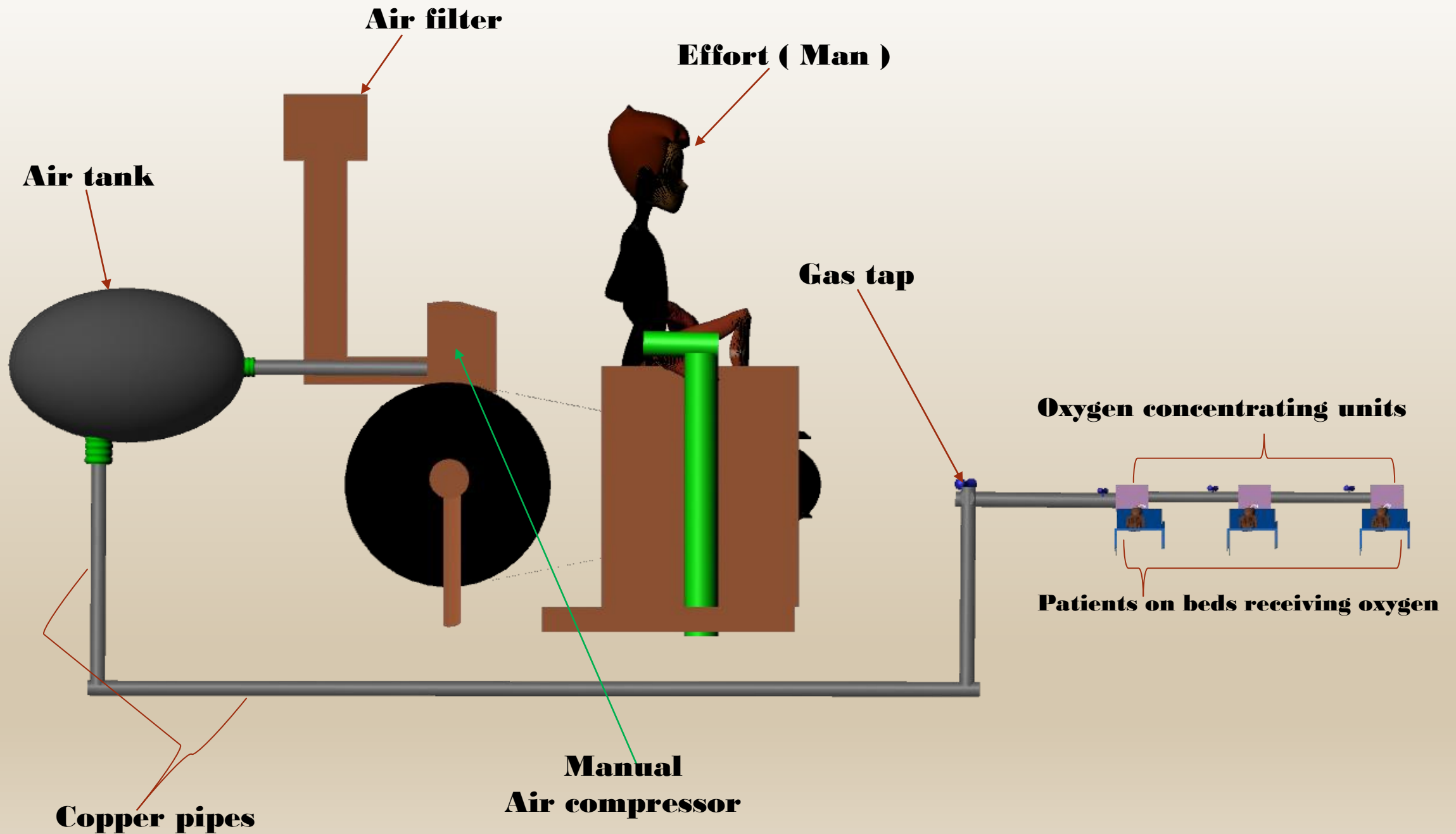
Patients on beds receiving oxygen

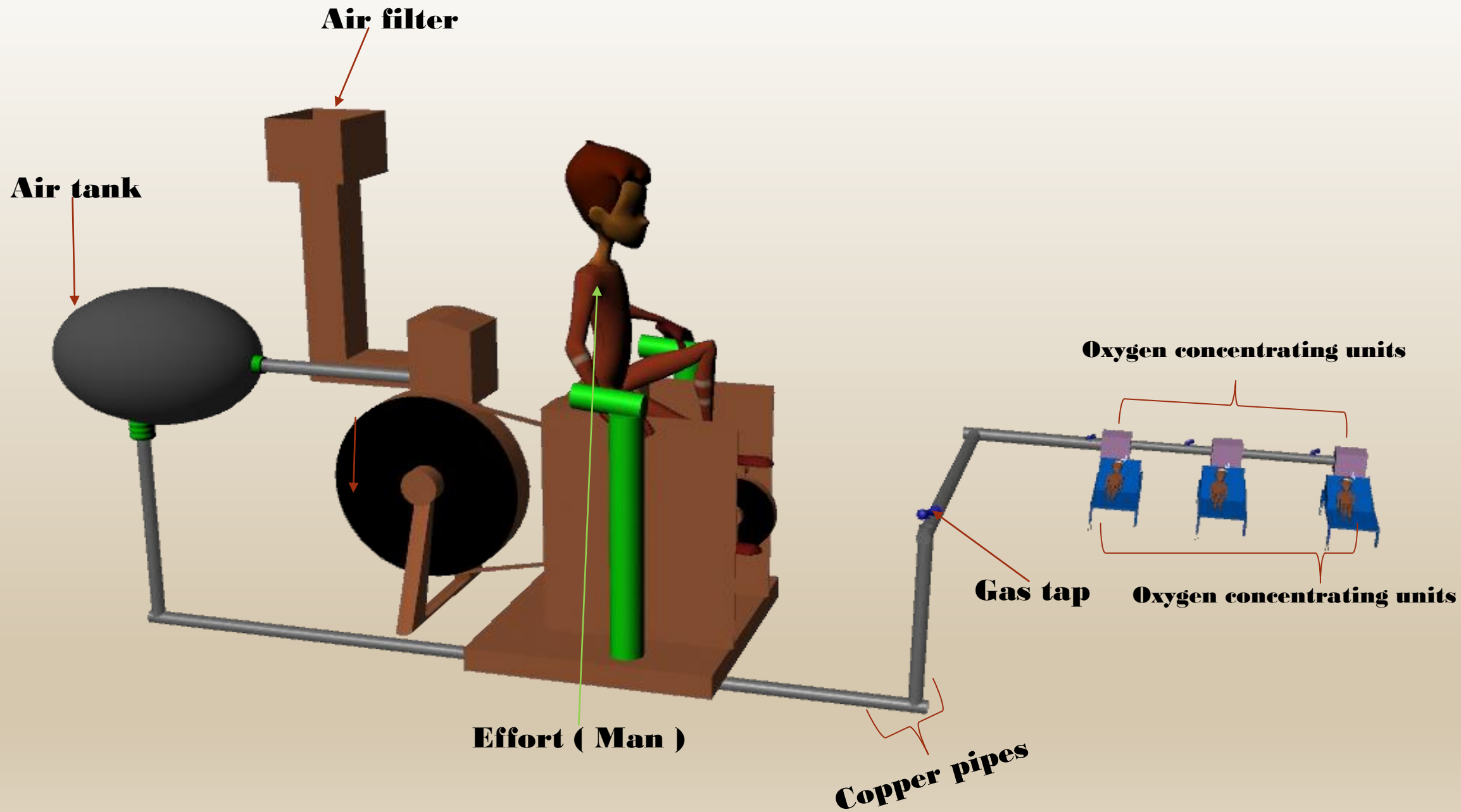


OXYGEN PRODUCTION



USING A MANUAL METHOD



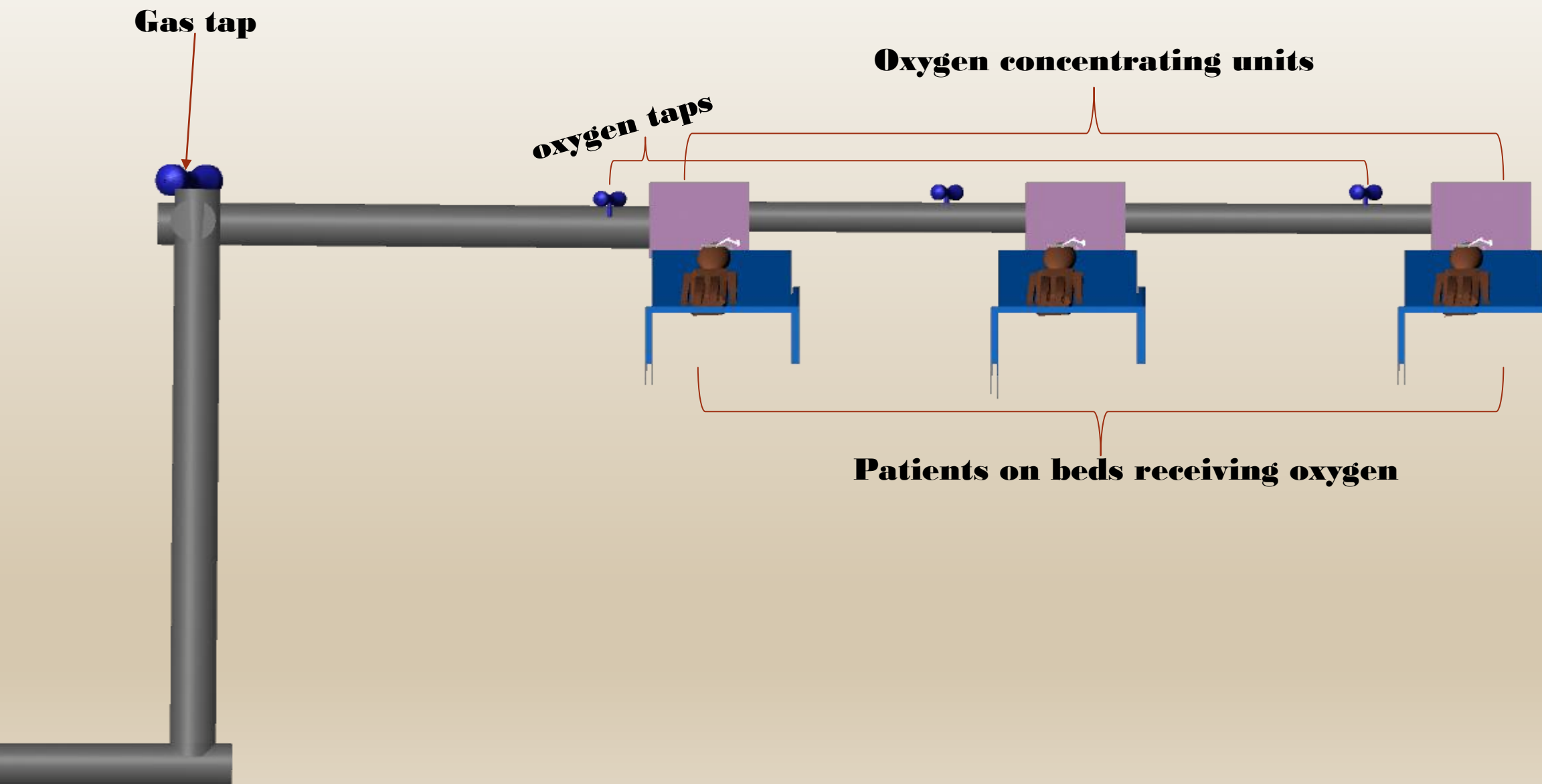


Gas tap

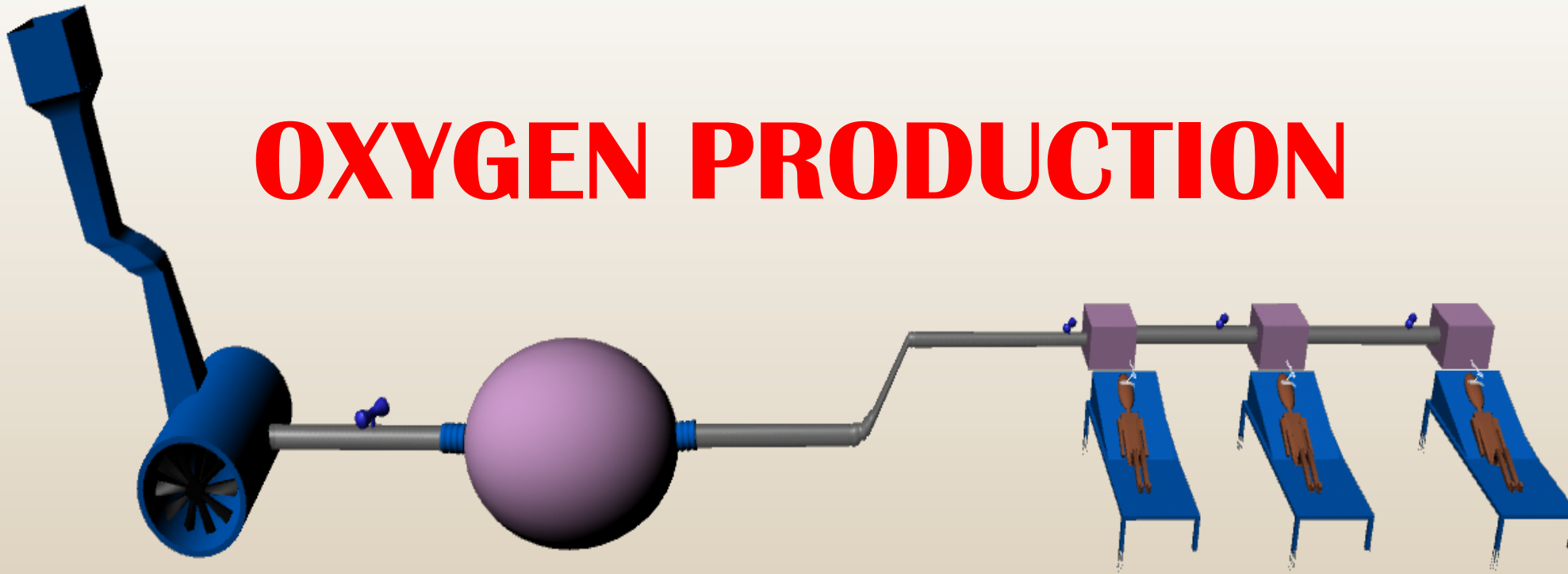
Oxygen concentrating units

oxygen taps

Patients on beds receiving oxygen



OXYGEN PRODUCTION



USING A MOTOR

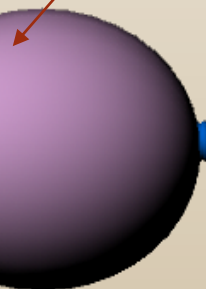
Air filter



Gas tap



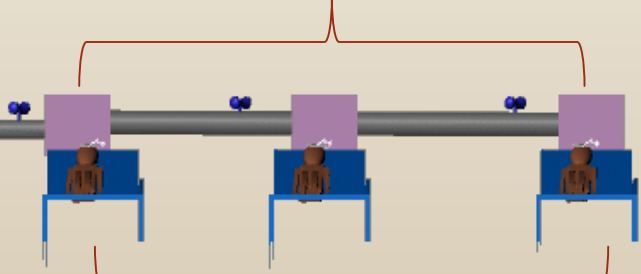
Air tank



Copper pipes

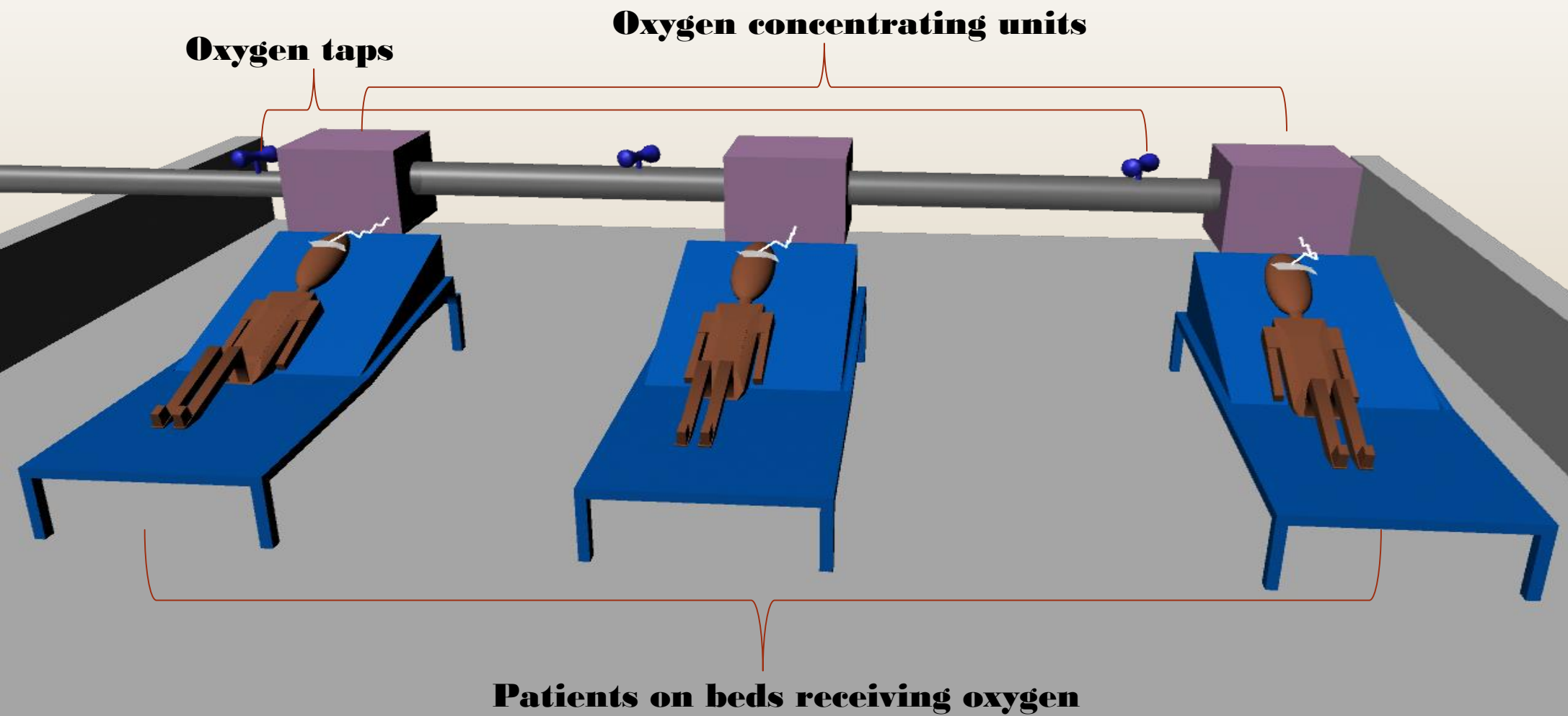


Oxygen concentrating units



Patients on beds receiving oxygen

Motor
Air compressor



Air filter



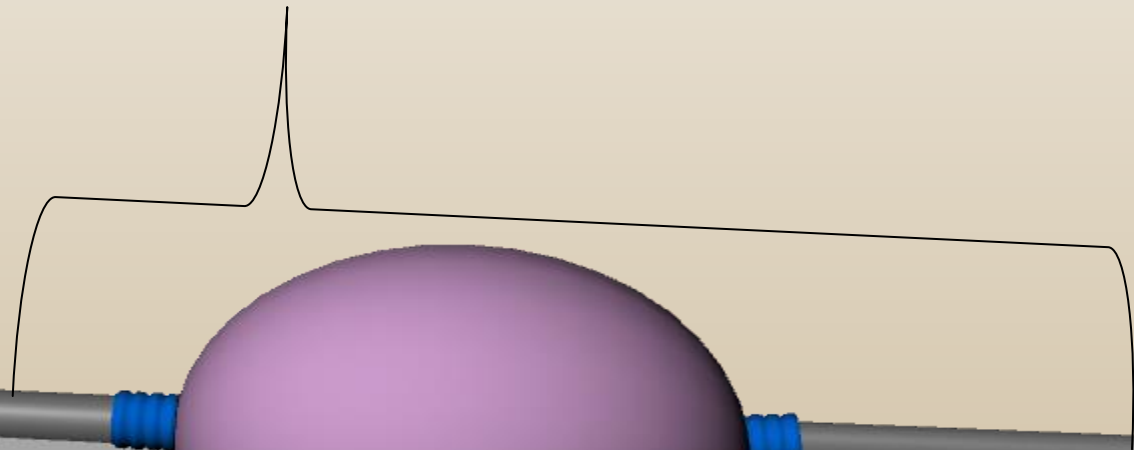
**Motor
Air compressor**



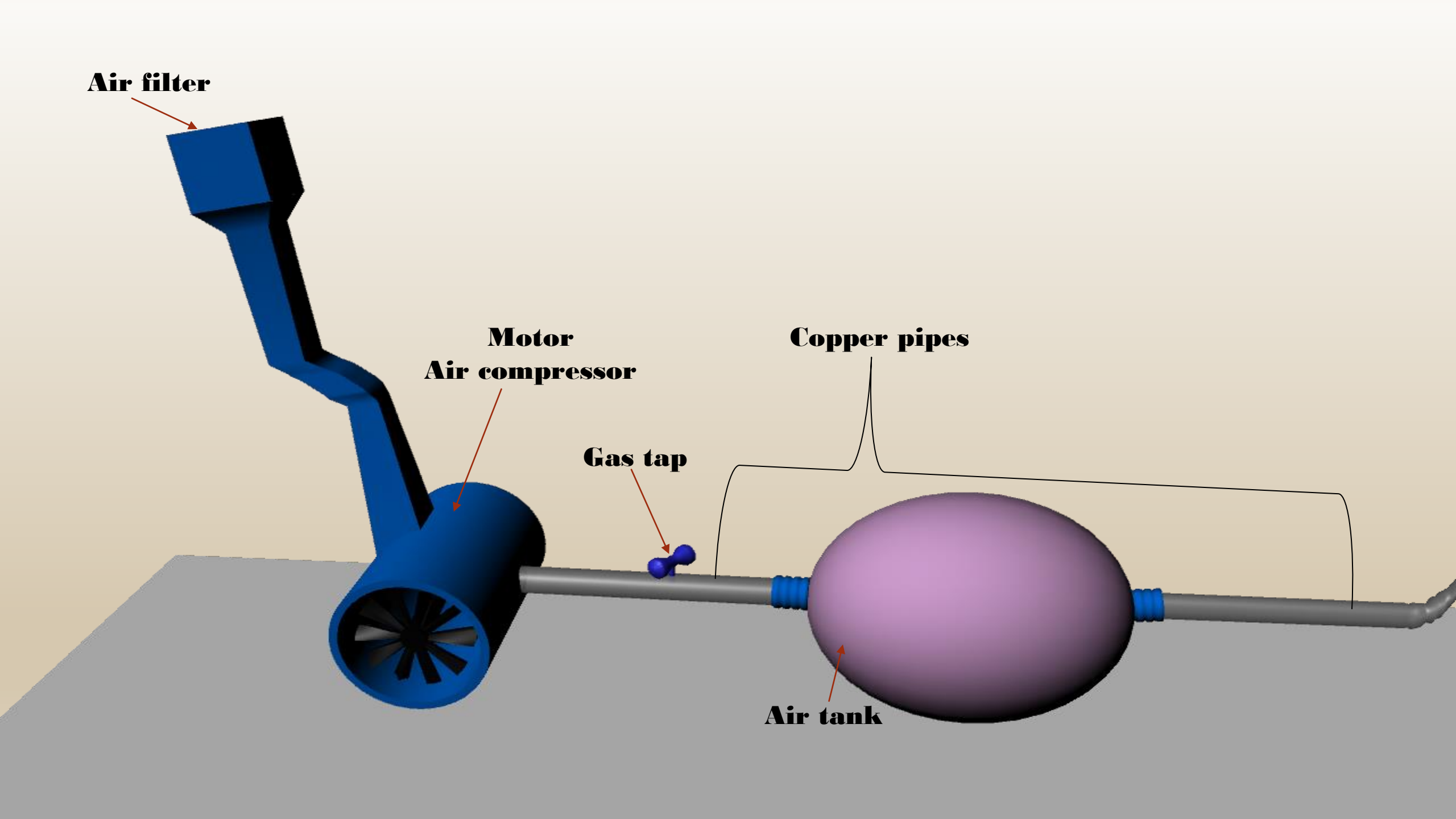
Gas tap



Copper pipes

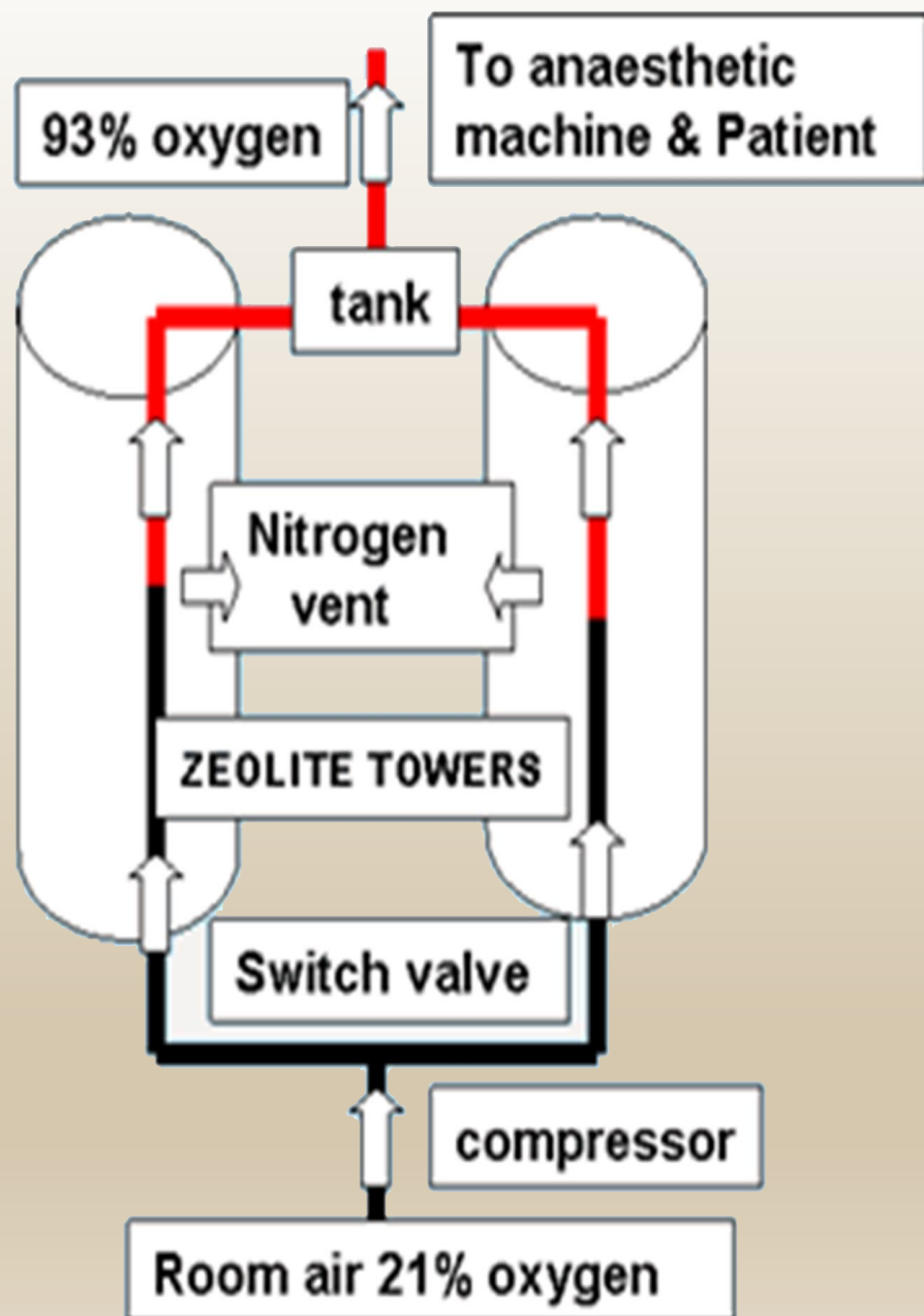


Air tank



HOW DO OXYGEN PLANTS WORK?

The air that surrounds us normally contains a variety of gases and 21% of that mixture is oxygen. The oxygen generator draws the air through an intake valve, passes the air through filters to remove contaminants, and then through another molecular filter, which separates the oxygen from the nitrogen, argon and other contents. By extracting the oxygen, the generator delivers a flow of oxygen that will typically have a purity of up to 95%.



END