



# FLEXI UNIT

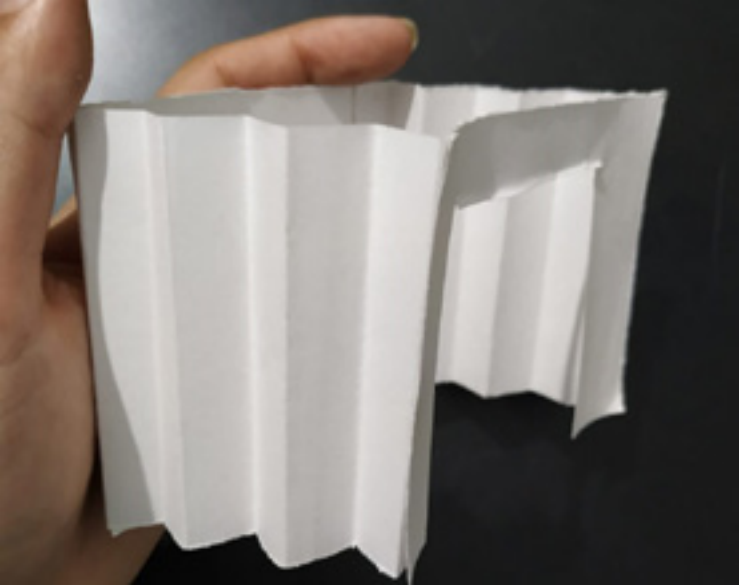
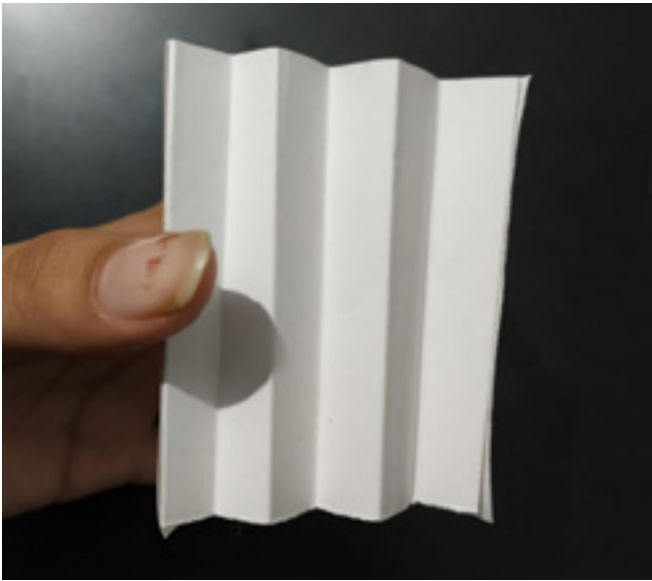
Portable Isolation Facility For COVID-19

by Nikita Nair

# RESEARCH

Inspiration from paper origami.

Researched some of the fold and made a quick prototype with paper.



## Fold Types

**Half Fold:**  
1 fold, upright



**Z Fold:**  
2 folds, accordian



**Letter Fold:**  
2 parallel folds



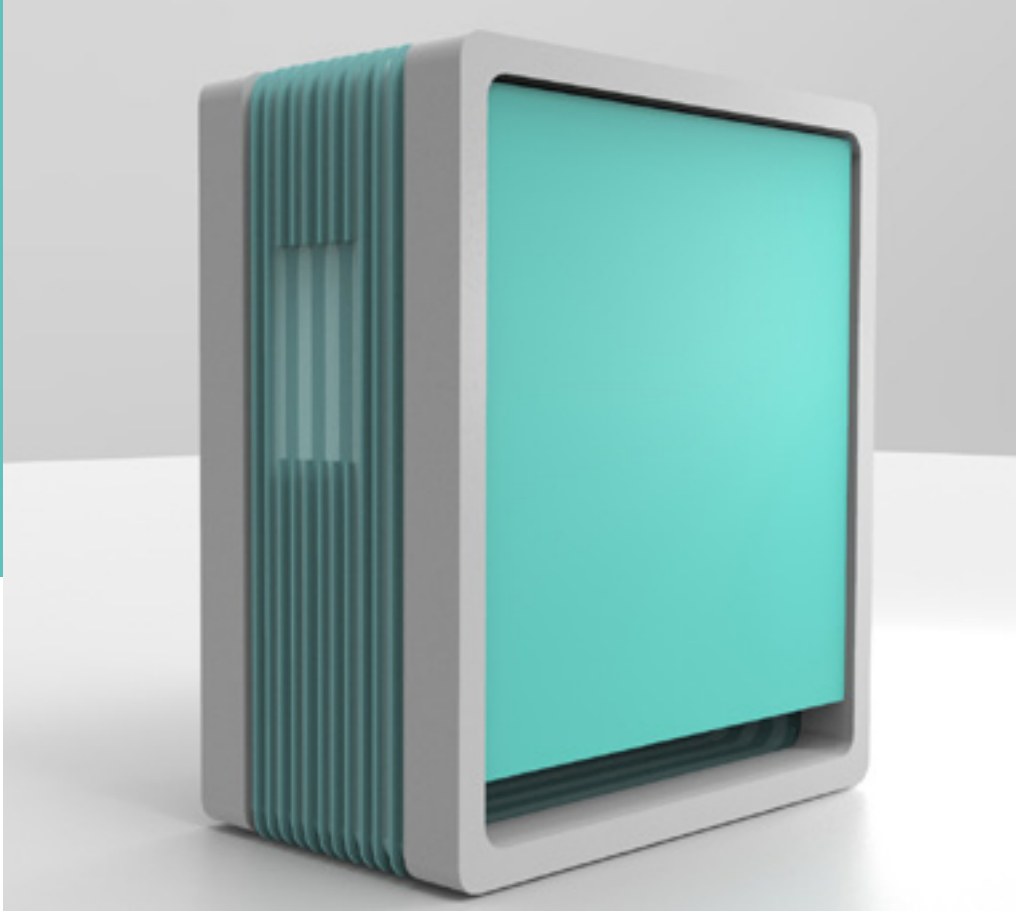
**Right Angle:**  
2 folds, Half fold vertical and horizontal



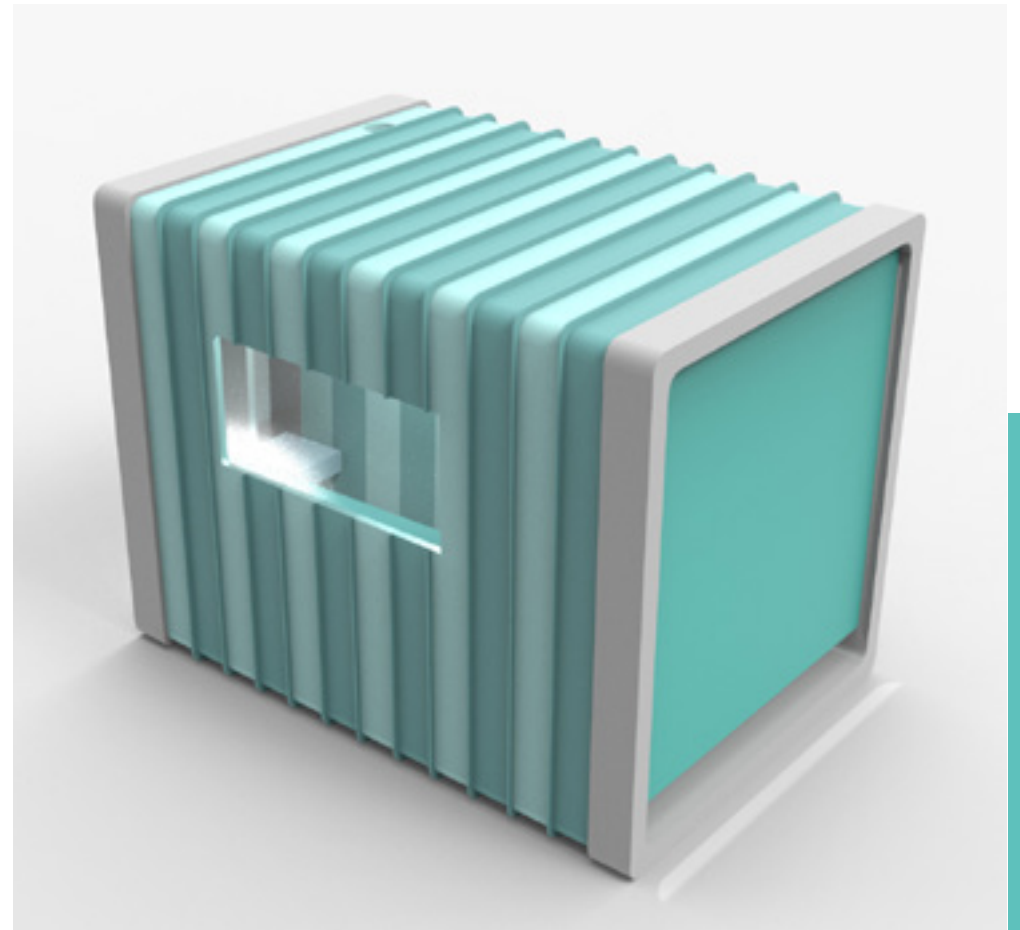
**Double Parallel:**  
2 parallel folds



# RENDERS



Closed Unit

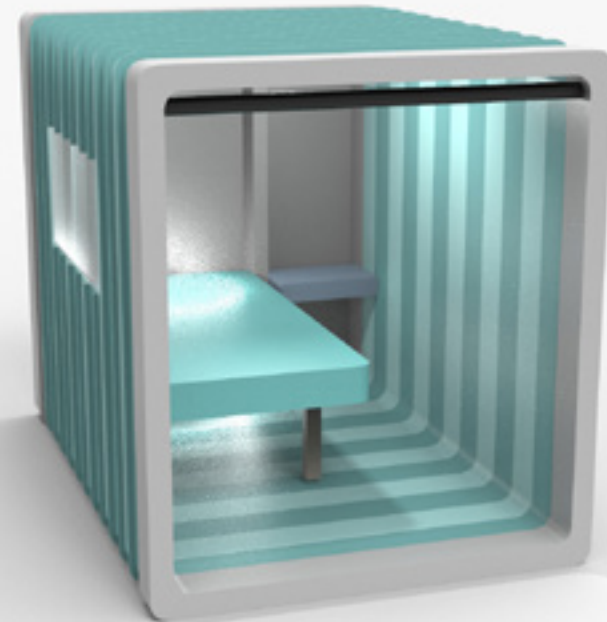
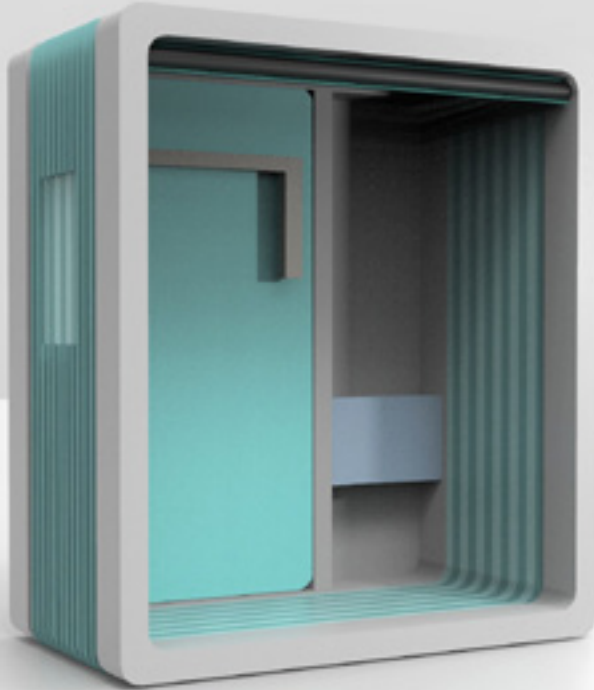


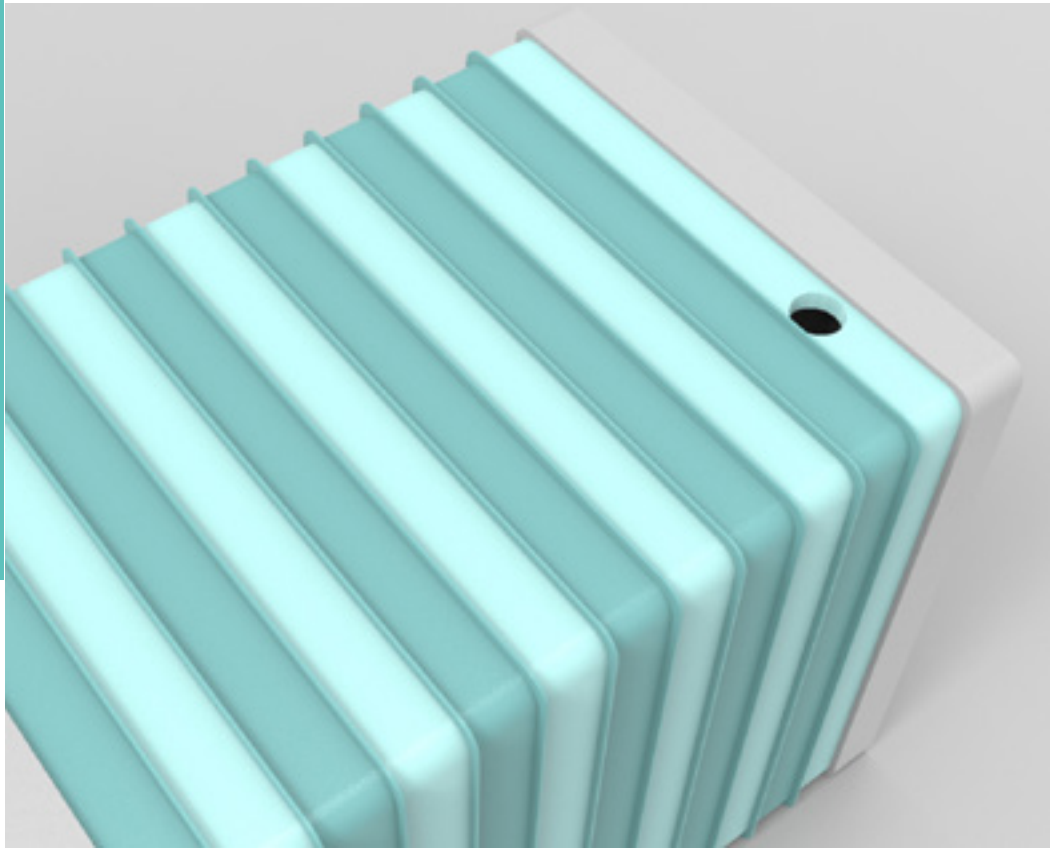
Opened Unit

# ASSEMBLY

STEP 1: To place the unit on a flat surface and stretch open the unit completely.

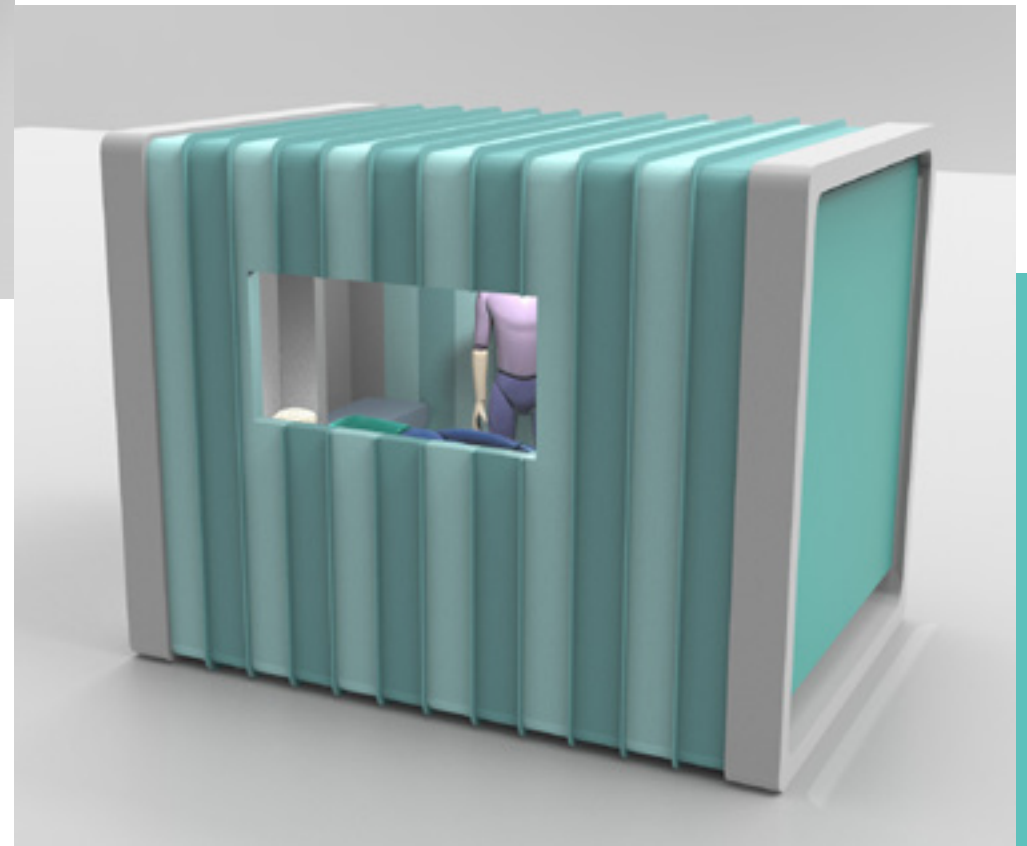
STEP 2: To fold open the bed and the side table for the patient.

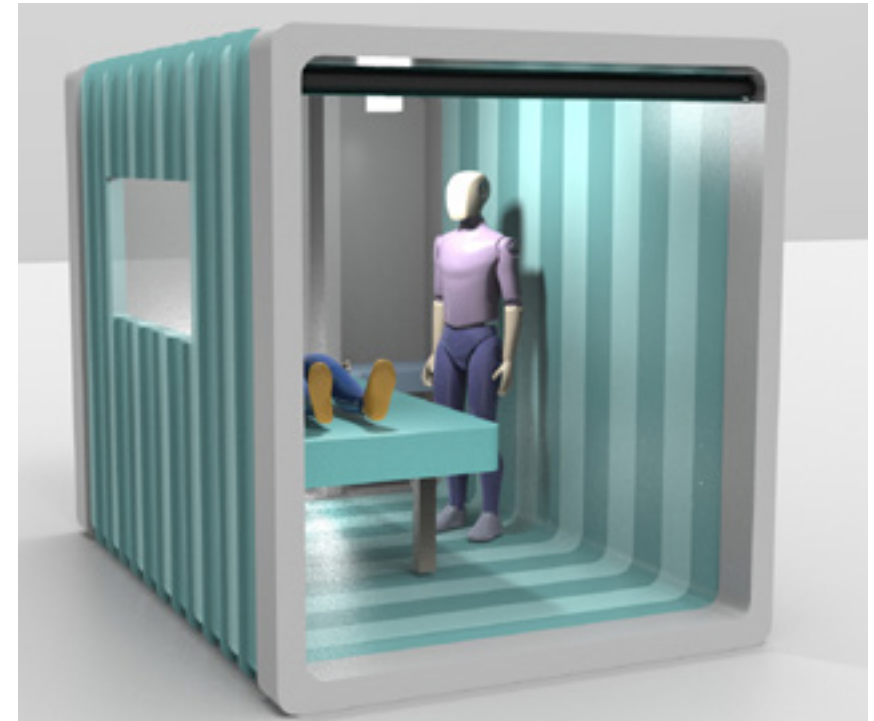
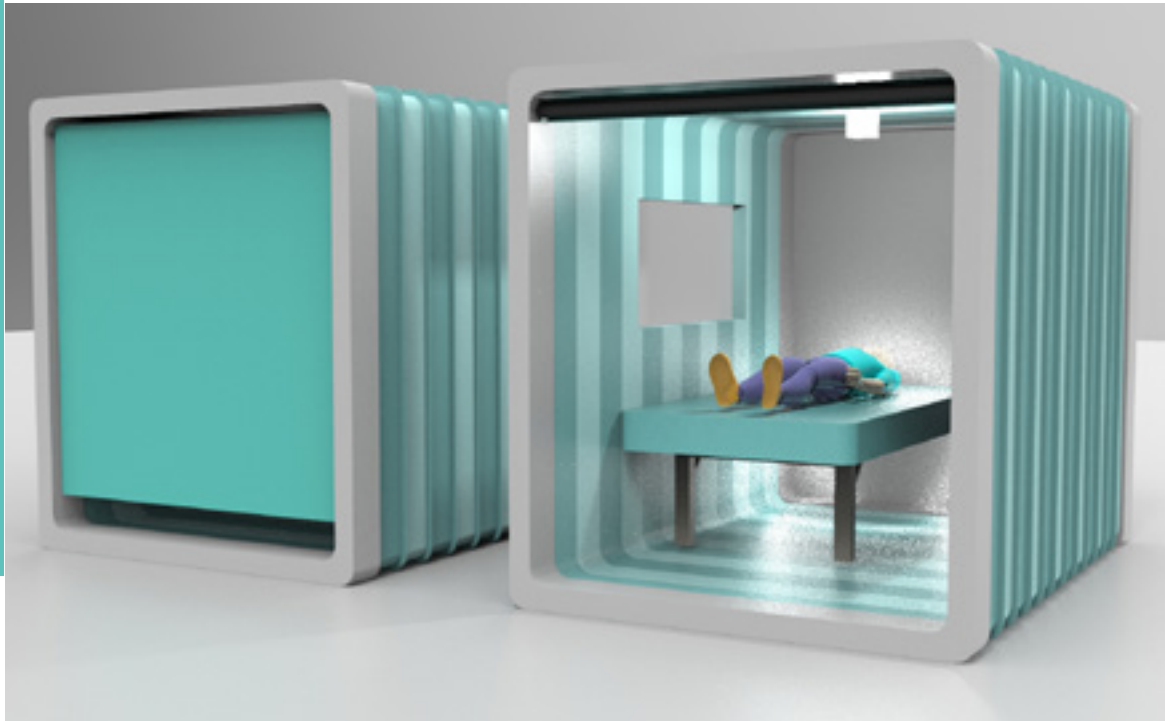




STEP 3: To connect the air filter with the unit, through the upper hole of the unit.

STEP 4: Add the curtain to the unit. Unit is ready to use.

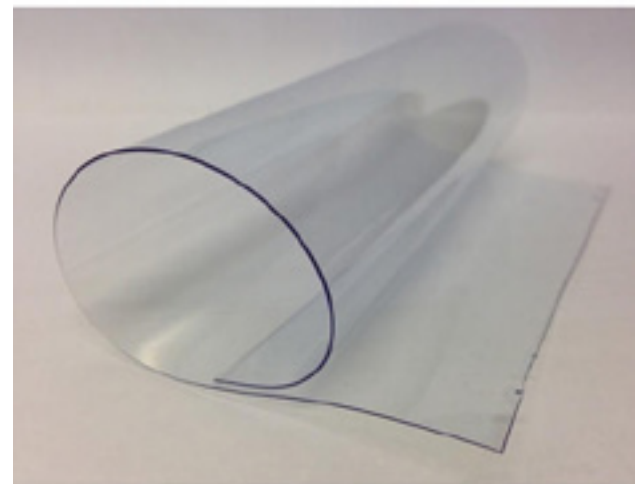




## MATERIAL



**NYLON:** Nylon fibers are strong, waterproof and elastic. The fibers have excellent toughness, abrasion resistance, and are easy to wash. Therefore we can use it as the foldable outer part.



**CLEAR PLASTIC:** The material is thin, it will lie flat and not cause a bump in the fabric. However, it is still quite strong, making this a great stretchable stabiliser. So this can be used at the window.

## TIME



Will take 10-15 minutes to assemble.

## ASSEMBLY



1-2 person is enough to assemble.

## LOCATION



Stadium

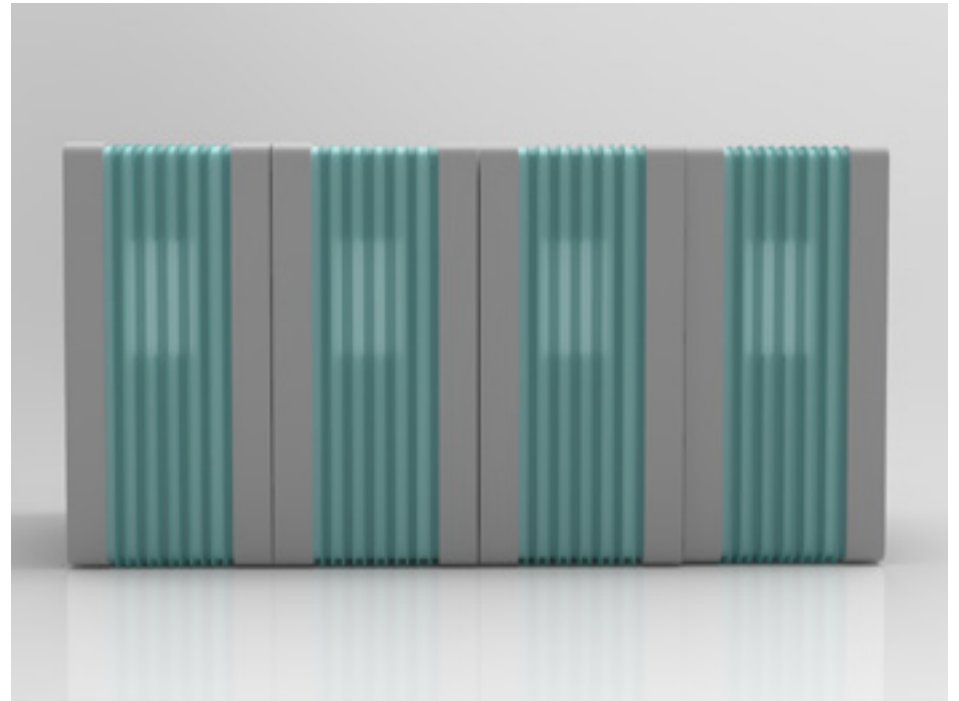
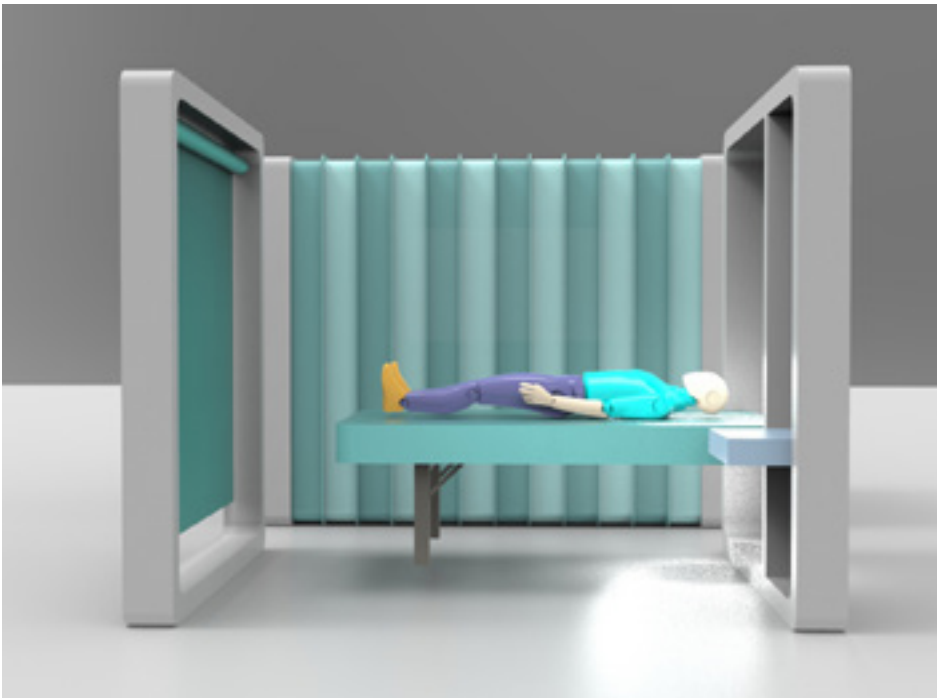
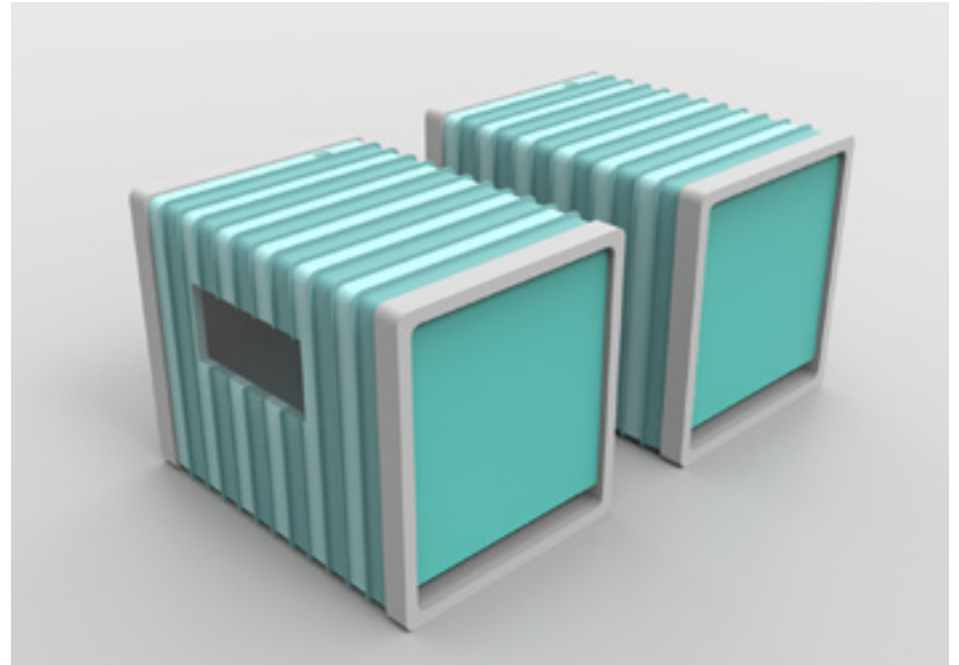


Home



Hospital







THANK YOU