



BROAD U.S.A. INC.

**BROAD U.S.A., INC.**

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## **BROAD Negative Pressure Isolation (NPI) Facility**

In response to the COVID-19 emergency, BROAD has combined our expertise in prefabricated structural material with decades of experience with HVAC and air purification to develop a unique Negative Pressure Isolation (NPI) facility.

BROAD's NPI Rooms are prefabricated using our B-CORE™ hardened stainless steel which is lighter yet far stronger than carbon steel. Prefabrication of the entire facility enables very fast installation on site. In addition to the speed of construction and durability of the structure, BROAD NPI Rooms have several distinct features:

- The use of BROAD's Negative Pressure Isolation technology: NPI lowers the pressure in treatment rooms - air comes in but cannot escape. Building exhaust air is vented out after being treated with ozone to kill the virus.
- Every room is equipped with an electrostatic cleaner which releases hi-voltage static electricity that kills any virus or bacteria, and has a filtering system with a PM 0.3-2.5 filtration rate of 99.9%.
- Safe and reliable disinfection of the air in the wards and medical staff areas, preventing cross infection which is such a danger to medical staff today.

An NPI facility can be an expansion to an existing hospital, or it can be an isolated treatment facility.

In April 2020 BROAD built the first phase of a 480 bed hospital for the Seoul National University Hospital for the treatment of severe COVID-19 cases. The first phase of 24 beds had a project cycle from contract to completion of just 23 days, and the on-site construction was completed in just 2 days. This Youtube video shows the project cycle, from factory to on-site installation: [BROAD NPI facility in Korea](#)

The BROAD NPI Rooms were engineered to protect our heroic front line medical staff, and to enable the treatment of severe cases in the safest environment possible.

Link: <https://www.broadusa.net/en/broad-npi-facility/>

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