Rapid-deployment negative pressure isolation rooms
COVID-safe innovations

Product Catalogue 2020
The NPiR-12X expands the space available for your mobile field hospital by employing long double-wall fabric inflatable panels that offer multiple configurations. Shipping flat-packed with a rapid-assembly modular design, they offer ample space for 10+ intensive care unit beds and many more with non-hospital grade bunk bedding, making it ideal as a field hospital, quarantine station & ICU expansion. A true negative-pressure medical isolation room, it ships with our state-of-the-art HEPA filters & UVC light air scrubbers that clean COVID-19 contaminated air at the mobile field hospital's exhaust unit, minimizing viral spread.

The NPiR-12X Series comes in 3, 5 and 7-panel configurations, offering 3 different sized options (12S/12M/12L) depending on space requirements. The standard 12m length can be customized within the range of 4 - 18m if required.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>NPiR-12S 12<em>3.9</em>2.8m</th>
<th>NPiR-12M 12<em>5.6</em>3.3m</th>
<th>NPiR-12L 12<em>6.9</em>4.3m (L * W * H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beds</td>
<td>Fits 10+ ICU beds</td>
<td></td>
<td></td>
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<tr>
<td>Amenities</td>
<td>2 x toilets (removable 24L waste tanks &amp; 15L flush), shower (USB battery powered pump) + folding PVC bathtub</td>
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</tr>
<tr>
<td>Ventilation</td>
<td>Unit dimensions: 1175<em>575</em>300mm (W<em>D</em>H), 120W low-noise fan capable of up to 1,000 m³ per hour</td>
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<td></td>
</tr>
<tr>
<td>HEPA filter + UVC lamp</td>
<td>Filter dimensions: 1170<em>570</em>70mm; 99.99% @ 0.3μm; 2 x UVC lamps irradiating the filter</td>
<td></td>
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</tr>
<tr>
<td>Surface finish</td>
<td>Main color: Blue, grey or reflective coating (for hot climates); Trim: White or red.</td>
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<tr>
<td>Monitoring &amp; control</td>
<td>3-speed control, CCTV w/ motion-detector (streaming &amp; alerts via mobile), pressure sensors + alerts</td>
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<td></td>
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<tr>
<td>Ante-room</td>
<td>Decontamination ante-room; Hands-free magnetic curtain; Convection heater, ionizer (optional)</td>
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<td></td>
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<tr>
<td>Lighting</td>
<td>LED strip lighting</td>
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</tr>
</tbody>
</table>
Our flagship NPiR-12 isolation tent utilizes lightweight double-wall fabric panels that become rigid and durable when inflated. Providing 80m³ + of additional hospital-bed space per unit, with room for 6 ICU beds (up to 18 with bunk beds) plus dual integrated shower/toilet units at the entrance. Medical-grade air filtration with UVC light sterilization helps contain person-to-person transmission of respiratory viruses like COVID-19, SARS and influenze. A rapid and cost-effective way to surge ICU capacity and ease the strain on stretched hospitals.
The NPiR-3 negative-pressure medical isolation tent provides a contained, HEPA /UVC light filtered structure that caters for a single ICU bed. Given its compact and lightweight construction, it can easily be erected inside hospitals, allowing for the effective confinement of COVID-19 infected patients and minimizing the risk of airborne coronavirus particles spreading to other patients and hospital staff.

**NPiR-3**

- **Dimensions**: L3*W3*H2.5m
- **Beds**: Fits a single ICU bed
- **Ventilation**: 500m³/hr blower exhaust for structure, negative pressure and up to 20 air change s/ hr
- **HEPA filter + UVC lamp**: Filter dimensions: 570*570*70mm; 99.99% @ 0.3μm; UVC lamp irradiating the filter
- **Lighting**: Existing hospital lighting sufficient due to transparent structure
- **Cleaning**: All materials compatible with standard alcoholic + anionic / cationic disinfection agents
- **Packaging**: Wooden package, ready to ship by truck, air or even courier

Airflow progress via laminar flux without turbulence for 1.5m, reaching contagious area in vicinity of patient.
The DiC-3 is a pass-through disinfection corridor with a disinfecting dry fog mist. It can be used within medical facilities like hospitals and aged-care facilities to ensure visitors are not carrying any viral particles on their person or clothing. It can also be used in non-medical settings where there is a critical need to minimize the chance of viral spread, such as food preparation facilities, factories, prisons and others.

**Dimensions**
L3 * W3 * H2.5m

**Lighting**
Existing hospital lighting sufficient due to transparent structure

**Disinfection**
Dry fog mist machine for disinfection

**Packaging**
Wooden package, ready to ship by truck, air or even courier

A continuous cloud of droplets of a diameter <1 micron of disinfectant solution is maintained.
This low-cost and scalable emergency housing module sports an extraction fan with air filters and UVC light killer to provide an extra layer of protection when housing quarantined people, accommodating vulnerable people living in close proximity to each other, or looking to expand hospital bed capacity for less-critical patients. Offering an affordable alternative to more advanced negative-pressure medical isolation rooms, it gives enhanced protection when housing COVID-19 vulnerable populations or conducting procedures such as coronavirus testing, state-managed quarantine and low-level medical treatment.

**Dimensions**
L3 * W3 * H2.5m

**Ventilation**
Extracting AC turbine fan with filters & UV killer

**Beds**
Accommodates 2-6 people with transformable bunk bed structure

**Power**
Surge-protected power boards
In addition to the Domedix range of self-contained negative pressure isolation rooms, we offer our state-of-the-art ventilation and air-purification systems separately for the purposes of upgrading existing infrastructure to the standard of a negative pressure or hospital isolation room. Whether you are looking to convert an existing bricks and mortar hospital ward into a negative pressure isolation room, or you have a field hospital tent which requires negative pressurization and air purification, our plug-and-play fan filter units (FFUs) with integrated HEPA filters and UVC germicidal lamps can help.

**Core features**

- **HEPA filter + UVC lamp**
  - HEPA efficiency: 99.99% @ 0.3μm; UVC lamp irradiating the filter (both in built into fan filter unit)
- **Ventilation**
  - Option of 500 / 1,000 / 2,000 m³/hr blower exhaust depending on project requirements
  - Air volume (m³/hr)
  - Unit dimensions (L*W*H) / Weight
  - HEPA filter dimensions (L*W*H)
  - Noise
  - Power
- **Negative Pressurization**
  - Achieves >12 air changes (ACH) in 30m² sized tent
- **Monitoring**
  - Integrated differential pressure gauge to alert for dangerously low pressure
- **Weather-proofing**
  - Protected from the elements by waterproof housing; Connects to tent via existing tent flange
- **Ease-of-use**
  - Plug & play; Easy operator level maintenance

**Assumptions for Tent Retrofits**

- Tent has a rigid structure that allows negative pressure without deforming
- Floor will be added to minimize wall-to-ground leakage
- There is a soft flange or other connections from tent to filtration unit
As public spaces such as shopping centers and office buildings are faced with the challenge of regularly sanitizing key touchpoints in an effort to minimize viral spread, this simple, safe and self-starting innovation offers an unbeatable way to ensure the cleanliness of escalator handrails. Powered by a dynamo that is set in constant motion by the escalator handrail, the unit houses a UVC germicidal lamp which constantly disinfects the handrail of pathogens while being safely hidden from the public view.

### Specifications

- **Dimensions**: L350 * W120 * 350mm
- **Power**: Dynamo generates 28W at 3km / hr
- **Housing**: Stainless steel & UV resistant PVC
This mobile extra-oral smoke suction machine is designed to provide rapid filtration of droplets, aerosolized bacteria and other microbes during patient treatment in dental surgeries and clinics. Powerful suction is achieved by means of negative pressure generated by the brushless DC motor. Comprehensive 3-phase filtration achieves the highest possible levels of hygiene:

1. A washable cotton pre-filter and secondary water vapor absorbing filter capture spray, thin blood, food scraps and other larger particles;
2. Customized H13 HEPA and active carbon filter layer removes 99.97% of odors and aerosols;
3. The UVC photo oxygen catalytic sterilization module scrubs the air, creating a closed loop.

### Dimensions & weight

- Main unit: L300* W300* H450mm; Tube length: 1.4m; Total weight: 19kg

### Power

- 300W

### Air volume

- 300 m³ / hr

### Noise

- <55db

### HEPA filter + UVC lamp

- HEPA efficiency: 99.97% @ 0.3μm; UVC lamp irradiating the filter
Keep your ride microbe-free with this compact and lightweight UVC germicidal lamp. Designed for use in vehicles like ambulances, taxis and other scenarios where a car or van needs to be quickly and safely decontaminated after conveying a potentially infectious passenger or other cargo. This UVC light can be set on a timer for utilizing while the vehicle is vacated for human safety. Great for ride-share drivers too.

**Dimensions**
Housing: L445*W100*H38mm; Tube length: 317 ~ 320mm

**Lamp power**
28W (12V) / 23W(24V)

**UV illuminance**
12V: Low power = 54μW/cm², High power = 138μW/cm²

**Lamp life**
3,000 hr

**Colors**
White or yellow
This innovative, mobile, walk-through installation provides automated temperature measurement, identity checks (facial recognition, code, fingerprint compatible) plus effective & comfortable disinfection of workers, guests and other members of the public. Perfectly suited for office buildings, hospitals, schools, shopping malls and more!

**Ext. dimensions**
- L179 * W110 * H239 cm

**Passable space**
- H192 * W101 cm

**Power**
- 900 W

**Temp measurement / display device**
- Display size: 8 inch
- Chipset: Quad core
- Measurement range: 30˚C - 45˚C
- Accuracy: ±0.2˚C
- Device to person range: 0.3 - 0.8 m

**Disinfection chamber**
- Smart sterilizer dimensions: L60 * W19 * H150 cm
- Spray methodology: Ultrasonic atomization, Microwave induction start, delay stop

**Hand sanitizer**
- Induction spray type; 1L capacity

Android tablet with non contact
Sensor-activated hand
Automatic door grants access if person passes scan criteria (body temp, mask, identity)
Intelligent induction atomizer sterilizes clothing while germicidal foot-mat
Wheels & folding ramps for quick & mobile deployments

FOR USE PRIOR TO ENTRY INTO OFFICES BLOCKS, SCHOOLS, HOSPITALS, HOTEL LOBBIES ETC

Rapid-deployment negative pressure isolation rooms

www.domedix.com  info@domedix.com