COVID solutions for airlines

Cabin modification, distancing and disinfection solutions
COVID safety kits and on-board devices
Etihad Engineering’s wide range of COVID solutions for airlines

1.0 Passenger to freighter solutions for all platforms
1.1 Cargo nets/straps (minor)
1.2 Seat bags (minor)
1.3 Floor loading tie down (STC)
1.4 Pallets (STC)

2.0 Separation and disinfection solutions
2.1 Social distancing – seats (minor)
2.2 Social distancing – curtains (minor)
2.3 Crew disinfection (minor)

3.0 Protection kits and devices
3.1 COVID protection kit
3.2 Face shield
Passenger to freighter modifications

1.1 Cargo nets/straps

- Fast implementation
- Limited load
  Boxes to preset
  Seat must be protected

Cargo is placed on passenger seat and covered with flame retardant fabric/blanket – secured with seat strap and cargo nets

Modification from USD 9,500 (excluding material) and implementation depending on LOPA

Modification: 8 days from signing of contract
Implementation: 1-2 hours depending on LOPA

Airbus: All commercial aircraft types
Boeing: All commercial aircraft types
Minor modifications under EASA, GCAA and FAA (TBD)
Passenger to freighter modifications

1.2 Seat bags

- Cargo is placed in fabricated seat bags that are attached on to the seat structure and seat tracks.

- Modification from USD 9,500 (excluding material), from USD 290 per triple-seat bag, implementation depending on LOPA

- Modification: 8 days from signing of contract
  Implementation: 3-5 hours depending on LOPA

+ Fast implementation
  Easy fill-in of load

- Limited load

Airbus: All commercial aircraft types
Boeing: All commercial aircraft types
Minor modification under EASA, GCAA and FAA (TBD)
Passenger to freighter modifications

1.3 Floor loading tie down

- Affected seats deinstalled and load placed on the floor structure with tie down
- The load is protected by covers against flam requirements
- STC modification from USD 90,000 (excluding material) and implementation depending on LOPA
- Modification: 30 days from signing of contract
- Implementation: Depending on LOPA
- Airbus: All commercial aircraft types
- Boeing: All commercial aircraft types
- STC modification under EASA, GCAA and FAA (TBD)

+ Higher load

- Seats to be removed
- Hooks to be installed on seat track
- Restricted loading procedures
Passenger to freighter modifications

1.4 Pallets

- Maximum load achievable
- Easy to handle for Flight Ops
- Higher investment

- Affected seats removed
- Pallets installed

- STC modification from USD 90,000 (excluding material) and implementation depending on LOPA

- STC modification: 30 days from signing of contract
  Implementation: Pending on LOPA

- Airbus: All commercial aircraft types
  Boeing: All commercial aircraft types
  STC modification under EASA, GCAA and FAA (TBD)
Separation and disinfection solutions

2.1 Social distancing - seats

- Simple and low cost
- Options available

- Physical partition via across-the-seat armrest, seat box or antimacassar, headrest
- Loose equipment modification from USD 5,500 (excluding material) and implementation depending on LOPA
- Modification: 15 days from signing of contract depending on option and LOPA

Airbus: All commercial aircraft types
Boeing: All commercial aircraft types
Modification under EASA, GCAA and FAA (TBD)
Separation and disinfection solutions

2.2 Social distancing - curtains

- Flexible separation
  Easy on-off solution

- Depending on LOPA

+ Economy and Business Class partitioned via curtains to create a quarantine zone within the cabin.

$ Minor modification from USD 7,500 (excluding material) and implementation depending on LOPA

 Modification: 10 days from signing of contract
 Implementation:  Depending on LOPA

Airbus: All commercial aircraft types
Boeing: All commercial aircraft types
Modification under EASA, GCAA and FAA (TBD)
Separation and disinfection solutions

2.3 Crew disinfection

- **Efficient on-board crew disinfection**
- **Light in weight**
- **Disinfection refill and recharge on the ground**

- Convert lavatory into a decontamination chamber by installing a hydrogen peroxide atomisation (fog) unit
- Loose equipment modification from USD 7,500 (excluding material) and implementation depending on LOPA and Operations acceptance
- **Modification: 5 days from signing of contract**
- **Implementation: Depending on LOPA**
- **Airbus: All commercial aircraft types**
- **Boeing: All commercial aircraft types**
- **Modification under EASA, GCAA and FAA (TBD)**
Protection kits and devices

3.1 Universal COVID protection kit

- COVID inflight health and safety kit especially for post COVID-19 operations
- Readily supports cleaning procedures for flight crew
- Protects crew from exposure to transmission of disease
- Conforms to IATA, ICAO and GCAA recommendations

Loose equipment from USD 4,500 (excluding material) and implementation depending on LOPA

+ Specialised for COVID operations
  Light weight
  Flexible locations

Order: Immediately after signing of contract
Delivery time: 10 days

Airbus: All commercial aircraft types
Boeing: All commercial aircraft types
Modification under EASA, GCAA and FAA (TBD)
Protection kits and devices

3.1 Universal COVID protection kit contents

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Apron, disposable</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Bag, biohazard</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Bio scoop with detachable scraper</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Booties, shoe cover</td>
<td>1 Pair</td>
</tr>
<tr>
<td>5</td>
<td>Gloves, double layer disposable</td>
<td>2 Pair</td>
</tr>
<tr>
<td>6</td>
<td>Gowns, surgical</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Hand sanitiser</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Mask, face shield</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Masks, N95</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Masks, surgical face</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>Odor eliminator</td>
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<tr>
<td>12</td>
<td>Labels, Lavatory - Do Not Use</td>
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<table>
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<tr>
<th>S.No</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>13</td>
<td>Pads, absorbent 10 x 20</td>
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<tr>
<td>14</td>
<td>Pads, gauze 10 x 10 (2/pk)</td>
<td>2 pk</td>
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<tr>
<td>15</td>
<td>Granules, absorbent 10g</td>
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<tr>
<td>16</td>
<td>Sharps container</td>
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<tr>
<td>17</td>
<td>Towelettes, antiseptic</td>
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<tr>
<td>18</td>
<td>Wipe, germicidal disinfectant</td>
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<tr>
<td>19</td>
<td>IR Thermometer</td>
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<tr>
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<td>200g sachet of absorbent powder</td>
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<tr>
<td>21</td>
<td>pH neutral foaming detergent</td>
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<tr>
<td>22</td>
<td>Googles</td>
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<tr>
<td>23</td>
<td>Medical Cap</td>
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</table>

The universal COVID protection kit is based on the latest Guidance Material (GM-07) issued by the GCAA and also conforms to IATA and ICAO recommendations. The alternate kit is supplied in two pouches in a ready to install condition. Etihad Engineering recommends to carrying 2 universal COVID protection kits on each aircraft.
Protection kits and devices

3.2 3D-printed face shield

- Reusable and light
- Customised company logo

3D-printed COVID face shield for crew and passengers using Etihad Engineering’s EASA approval for 3D printing

Loose equipment from USD 18 per piece, depending on order quantity

Order: Immediately after signing the contract
Delivery time: 10 days for 100 pieces

Independent of aircraft type
Get in touch with us today

For more information how we can support your fleet with our innovative COVID solutions, services and consultancy,

Please get in touch:

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