Corona virus targeted air purification

THE CORONA VIRUS COVID-19
The COVID-19 coronavirus is spreading around the world. Like all other viruses, the corona virus needs a carrier such as water droplets, dust particles or other pathogens in the air.

When an infected person coughs, coughs, sneezes or talks, droplets of moisture spread from the mouth into the air. These moisture droplets are carriers of viruses and germs. That is why it is important to maintain good hygiene by regularly washing your hands and coughing and sneezing in the elbow.

Unfortunately, in practice, not everyone adheres to this, causing the germs to end up on surfaces and in the air. Furthermore, as recently revealed the SARSCoV-2 virus has a relatively long survival half time in air of around 1 hour (NEJM 17-03-2020).

ASpra air purification from VFA Solutions is an effective filtration and purification system that removes airborne viruses, pathogens and dust particles.

Viruses, bacteria and fungi are biological particles, referred to as bio aerosols. Inside the device, these bio aerosols are guided through an electric field, where the majority is killed or deactivated. The viruses, bacteria and other pathogens are then captured in the collector (the filter) and permanently removed from the air. Reducing the risk of spreading.

WHAT WILL BE REMOVED FROM THE AIR?

Fine dust  Viruses  Bacteria  Fungi  Smells*  Gases*

*optional

ADVANTAGES ASPRA AIR PURIFICATION
• High filtration efficiency, comparable to HEPA filtration
• Kills viruses and bacteria inside the air purifier
• No microbial growth possible on filter
• Constant high filtration efficiency
• High air flow volumes
• Easy integration with existing systems
• Integration in every duct due to low pressure drop
• Energy savings due to low pressure drop
• Mobile air purification (product dependent)
• Easy filter replacement
• Modular system
• Low TCO

ASpra technical principle

Remove and limit the spread of the Corona Virus COVID-19
How to implement ASPRA air purification

SAFE AIR IN THE ROOM
TEMPORARY ISOLATION ROOM / PATIENT ROOM
- Use recirculation air cleaning in temporary isolation or patient rooms to control the spread of viruses such as COVID-19 and purify the entire area.
- Fixed or mobile solution.
- Small pre-selection of air purifiers:
  - ASPRA Aura (Smart)
  - ASPRA L Mobile
  - ASPRA L1250

SAFE ISOLATION ROOM
NEGATIVE PRESSURE ROOM
- By combining an ASPRA INduct air purifier with an exhaust fan, a room can be set at negative pressure. So that the extracted air is effectively filtered and disinfected before the air reaches the ventilation system or the outside environment.
- Thanks to the very low pressure drop of the ASPRA, the air purifier can also be integrated into any exhaust and supply ventilation duct without a fan.
- Small pre-selection of air purifiers:
  - ASPRA S INduct
  - ASPRA L1250 INduct
  - ASPRA L3000 INduct

PURE AIR IN THE ROOM
INSTALLATION ABOVE A SUSPENDED CEILING
- Viruses, bacteria, particulate matter and gases and odors are permanently removed from the room itself.
- Invisible installation and no extra noise production.
- Suitable for isolation rooms, preparation rooms, intensive care, corridors, waiting rooms and more.
- Small pre-selection of air purifiers:
  - ASPRA Ceiling

SAFE SUPPLY AIR
INTEGRATION IN VENTILATION SYSTEM AND VENTILATION CHANNELS
- The ASPRA air purifiers can be integrated with any ventilation system and ventilation duct. This effectively purifies the supply air from all air pollutants such as fine dust, viruses, bacteria (from inside and outside).
- Small pre-selection of air purifiers:
  - ASPRA S INduct
  - ASPRA L1250 INduct
  - ASPRA L3000 INduct
  - ASPRA XL INduct
VFA Solutions provides a short selection of air purifiers suitable against the Corona Virus COVID-19. Our product range includes many additional air purifiers. Please contact us for a personal advice.

**Product selection**

ASPRA Recirculation Ceiling

ASPRA Ceiling air purifiers are installed above a suspended ceiling and purify and recirculate the air in the room.

Filter replacement is easy and can be performed by anyone without moving ceiling tiles.

Effective, silent and invisible air purification.

ASPRA INduct

ASPRA INduct systems purify the air in your ventilation ducts. Combined with a fan, it can serve as a negative pressure system to reduce the spread to other areas. Integration is possible for any inlet and outlet ventilation ducts and is not bound to a particular ventilation system. ASPRA INduct air purification is efficient, does not produce any extra sound and can be installed above a suspended ceiling.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>0 - 1800 m³/h</th>
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<tbody>
<tr>
<td>Installation</td>
<td>Above a suspended ceiling</td>
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<tr>
<td>Air purification</td>
<td>Recirculation</td>
</tr>
<tr>
<td></td>
<td>- Particles: ASPRA technology</td>
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<tr>
<td></td>
<td>- Gas and odors: VFA Active Carbon Filtration</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Capacity</th>
<th>0 - 10,000 m³/h (unlimited scalable)</th>
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<tbody>
<tr>
<td>Installation</td>
<td>Above a suspended ceiling or in the room</td>
</tr>
<tr>
<td>Air purification</td>
<td>INduct</td>
</tr>
<tr>
<td></td>
<td>- Particles: ASPRA technology</td>
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<td></td>
<td>- Gas and odors: VFA Active Carbon Filtration</td>
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Permanently remove 99% of the viruses and bacteria from the air

**ASPRA Aura (Smart)**

The ASPRA Aura (Smart) air purifier removes particles (such as particulate matter, viruses and bacteria), as well as gases and odors from the air. The Smart provides air quality controlled air purification with the integrated air quality sensor. A perfect solution for mobile air purification. Very suitable for usage in temporary isolation rooms or for patients with respiratory infections. It is possible to mount the ASPRA Aura to a wall or ceiling for a fixed installation.

**ASPRA L Mobile**

Removes high particulate concentrations from the air (such as dust, viruses and bacteria). An ideal solution for high capacity and mobile air purification. Very suitable for preventing the spread of diseases in areas where large groups come together.

<table>
<thead>
<tr>
<th><strong>Capacity</strong></th>
<th>0 - 400 m³/h</th>
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</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
<td>Free standing / fixed installation</td>
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<tr>
<td><strong>Air purification</strong></td>
<td>Recirculation - Particles: ASPRA technology - Gas and odors: Active Carbon Filtration</td>
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<tr>
<th><strong>Capacity</strong></th>
<th>2,500 m³/h</th>
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<tbody>
<tr>
<td><strong>Installation</strong></td>
<td>Free standing [mobile]</td>
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<tr>
<td><strong>Air purification</strong></td>
<td>Recirculation - Particles: ASPRA technology - Gas and odors (optional): VFA Active Carbon Filtration</td>
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</tbody>
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