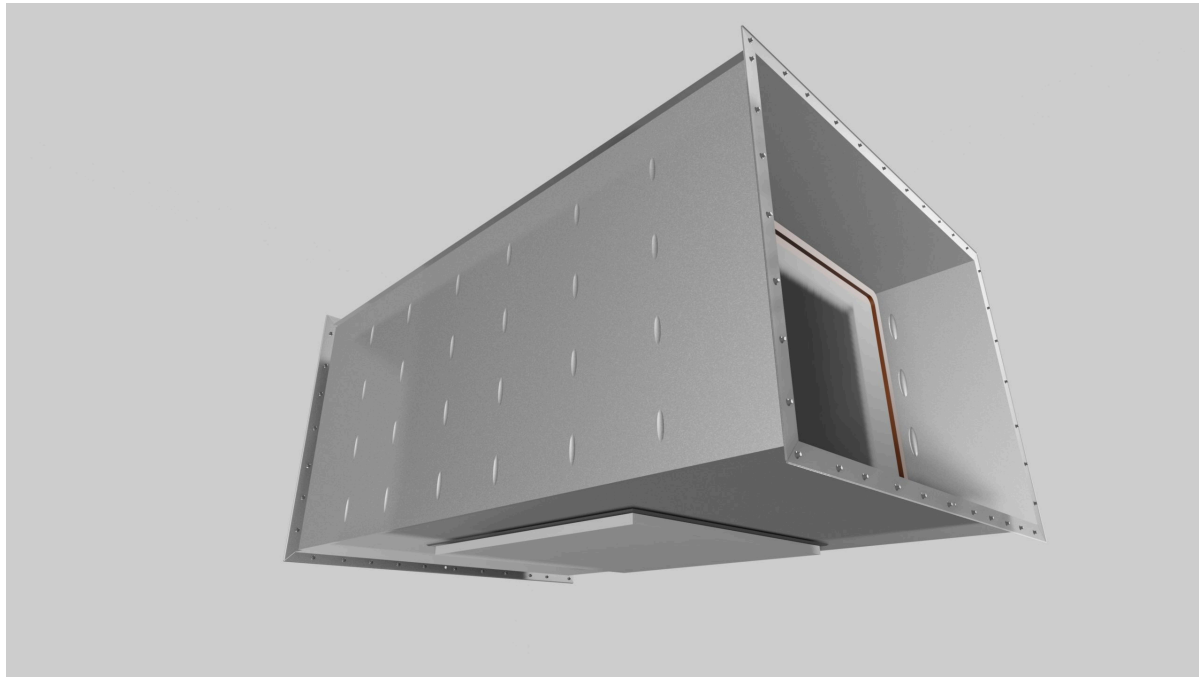


# Halton Quattro Aero – Four-stage air purification unit



## Overview

Quick Search

[Features & Benefits](#) | [Operation principle](#) | [Dimensions](#) | [3rd Party Testing](#)

### Features and Benefits ^

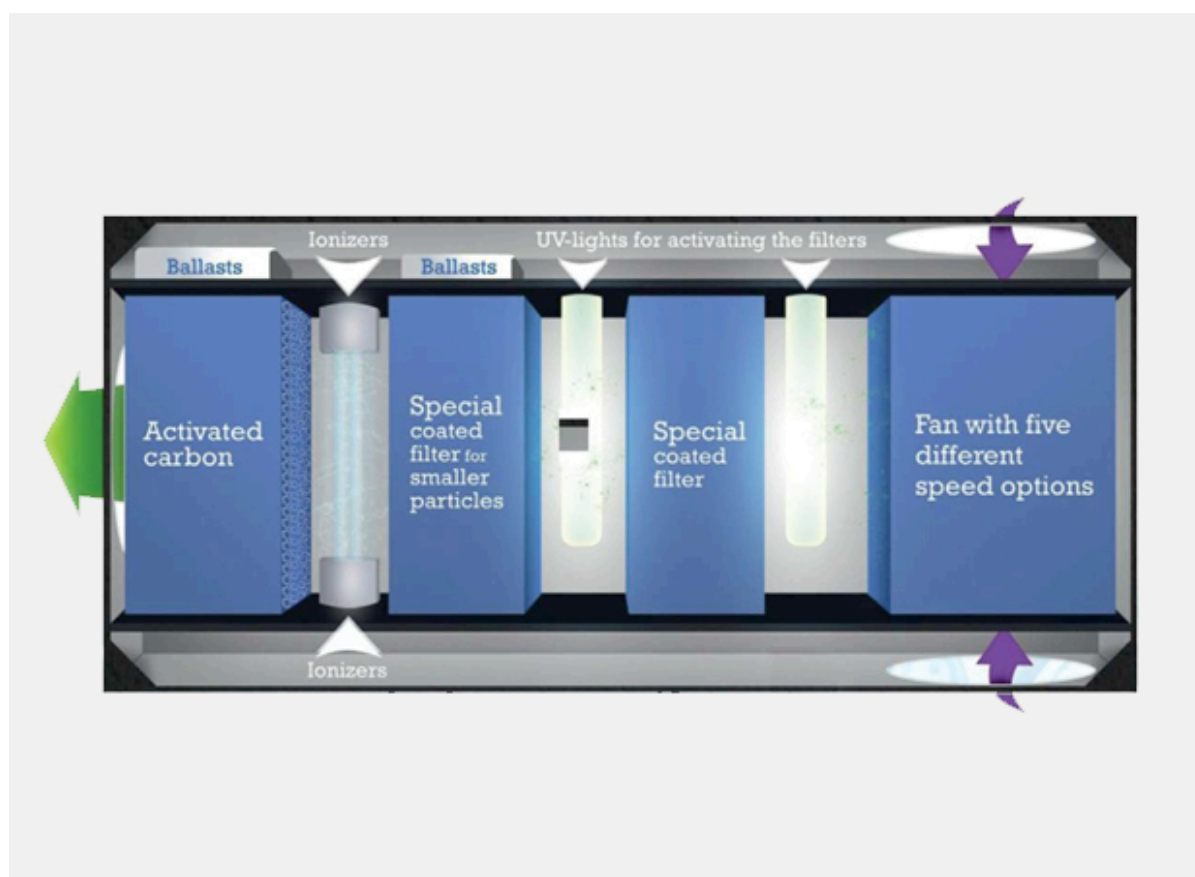
- Halton Quattro Aero is highly efficient – four stage – air purification unit that is to be installed as a part of existing or new ventilation system. The unit purifies indoor air by eliminating microbes (viruses, bacterias, spores).
- Four stage filtration includes: Bi-polar ionization, UVGI light, filtering, photo-catalytic oxidation. Note: patented process
- No need to drastically increase the fresh air amounts on board – due to Halton Quattro Aero air purification capabilities. A quick payback time.
- Low pressure loss makes it easy to install to existing systems
- Scalability allows to handle even large air volumes
- Standard unit airflow app. 1500 m<sup>3</sup>/h/unit
- The standard unit size is 460x480mm and lenght 710 mm without installation flanges. Weight appr. 40kg. Power consumption/requirment 180W.
- Controller always included
- IoT as an option for remote monitoring, managing large number of units, service cycle monitoring
- Minimum service cycle 12 months. Easy maintenance.

## Operation principle

The air passing through the UV-lights is charged with massive amount of ions. Additional ions are created by ionizer cassettes. Together with a small concentration of ozone they produce extremely reactive hydroxyl radicals. In the beginning the oxygen molecule gets a negative charge in photochemical reaction receiving a free electron forming a superoxide anion.

The formed superoxide anion reacts further with humidity producing oxygen, perhydroxyl radicals and hydroxyl radicals. Hydroxyl radicals oxidize organic molecules.

Additionally, due to the UV-lights reaction, hydroxyl anions ( $\text{OH}^-$ ) and hydroxyl radicals are created which are both very antiseptic.

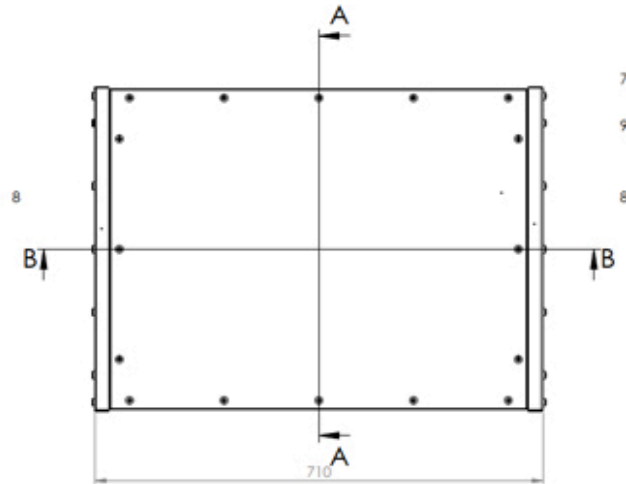
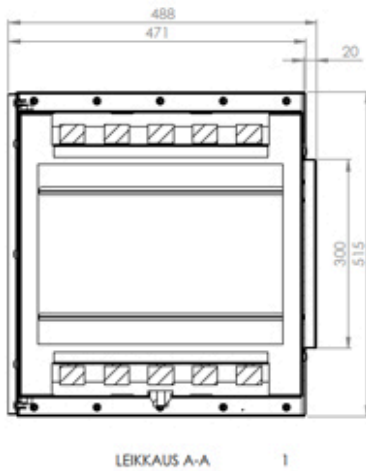


- Four stage filtration includes: Bi-polar ionization, UVGI light, filtering, photo-catalytic oxidation. Note: patented process

## Dimensions

The weight of each unit is appr. 40 kg. 460x480mm and lenght 710 mm without installation flanges.

Modular design available as an option.



## 3rd Party Testing Report

Multiple tests show that Halton Quattro Aero works against:

- Virus
- Bacteria
- Fungi/spores
- Gas (VTT 2019)
- Microparticles
- Zero ozone emissions
- Single pass cycle with min. Log 2 (>99%) deactivation

Third party test reports available on request. Please fill out the below form.

Free download (PDF)

**Halton Quattro Aero Test reports**

- First name\*

- Last name\*

- Company\*

- Phone\*

- Email\*

- State

- City

- Country\*

- Subject

- Message

- CAPTCHA

- Attach a file

Max file size: 128 MB.

Browse

Submit