



The Quantum Series® is a compact and high performance filter system that can be used for the extraction of automated and manual thermal metal cutting and welding fumes.

APPLICATIONS

- Laser and plasma cutting, thermal welding
- Manual cutting, welding, grinding

CAPACITY

Depending upon the model, configuration and application, the Quantum Series® can be used for air volumes of 1,500 m³/h up to 5,500 m³/h.

DESIGN

The advanced filter design of the separator prevents any common system failures. The segmented dual pulse cleaning system with volume optimisation ensures that the filter elements are cleaned efficiently and reliably while guaranteeing high system availability with sustainably low energy consumption. Depending on the configuration, coarse hot particles are collected in a separate container to prevent the ignition of flammable fine dust particles.

EFFICIENCY

The combination of horizontal PTFE filter cartridges, special equipment installation, and the dual pulse cleaning system, the Quantum Series® filters the finest and most hazardous dust while maintaining efficiency and preventing clogging in the filter cartridges.

ENERGY

The maximized and long-lasting filter surface ensures that the lowest differentiated pressures are maintained, providing high system availability and significant energy savings.

INSTALLATION

Small foot print and compact design allows the unit to be installed quickly and located close to the source process.

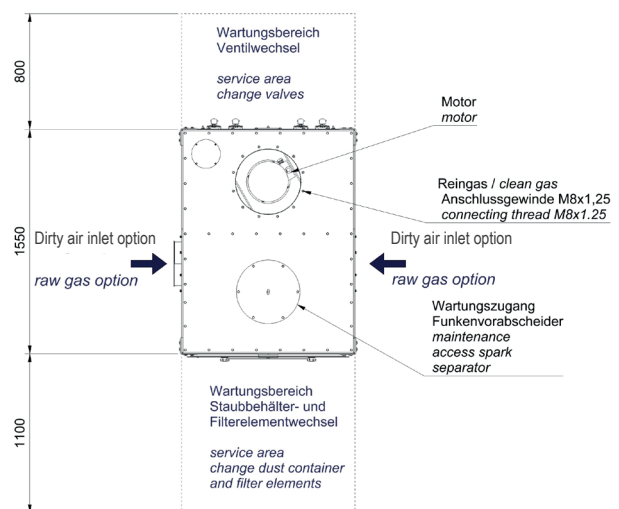
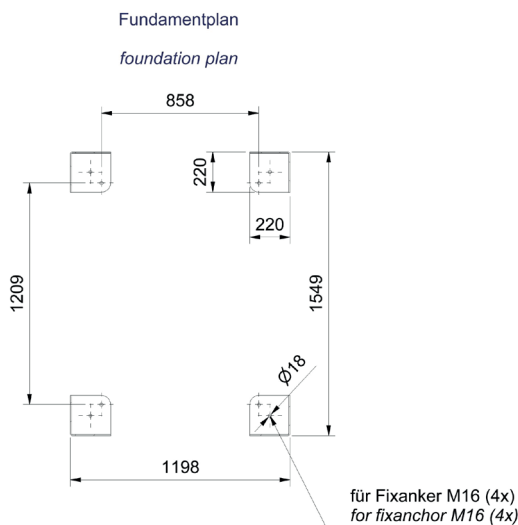
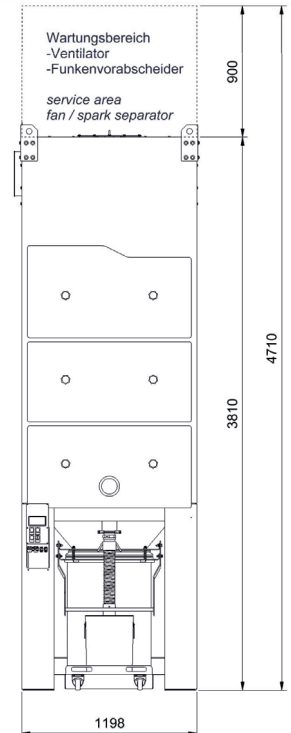
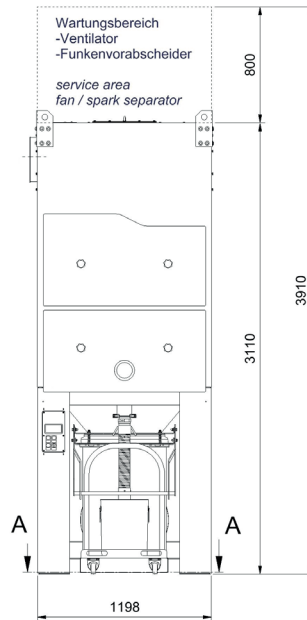
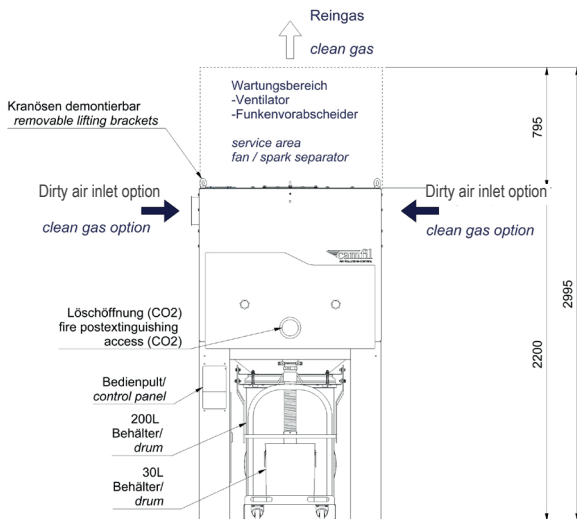
OPTIONS

- Equipment package "flammable dusts"
- HEPA post-filter H14 (99,995% efficiency at EN 1822, 0,08-0,15 µm)

BENEFITS

- ✓ Three sizes - the same footprint
- ✓ Operating volumetric flow 1,500 - 5,500 m³/h
- ✓ Flexible installation
- ✓ Integrated spark arrestor
- ✓ Dual pulse cleaning technology
- ✓ Efficient PTFE filter cartridges
- ✓ Integrated, sound-insulated fan
- ✓ Integrated control system
- ✓ Easy maintenance and filter change
- ✓ Plug & play

TECHNICAL DATA



Parameter	Quantum Series® QS2	Quantum Series® QS4	Quantum Series® QS6
Air flow	1,500 - 2,500 m³/h	3,000 - 4,500 m³/h	4,500 - 5,500 m³/h
Dust load	< 450 mg/m³ (non-explosive) coarse dust, fine dust		
Clean gas values	< 0,3 mg/m³ / PTFE-filter medium		
Noise level	< 75 dB(A)		
Compressed air valves	4	8	12
Installed motor power	3-4 kW / 50Hz CE / CE or 60Hz UL	7,5 kW / 50Hz CE / CE VSD or 60Hz UL	11 kW / 50Hz CE / CE VSD or 60Hz UL
Weight	approx. 900 kg	approx. 1,300 kg	approx. 1,500 kg
Dimensions (W x D x H)	1,200 x 1,550 x 2,262 mm	1,200 x 1,550 x 3,195 mm	1,200 x 1,550 x 3,895 mm