

WELDING SMOKE CLASS W3

WHAT DOES MEAN W3?

- W3 states the welding smoke class, for which the unit is tested (see table).

Welding smoke class W3 means that the unit extraction degree is tested specifically for welding smoke in high-alloy steel. This enables application for filtered air recirculation on markets, where this is permitted (recirculation is not permitted in Denmark).

Welding smoke class	Extraction degree	Application
W1	≥ 95 %	Unalloyed and low-alloy steel, e.g. steel with very low chromium and nickel content
W2	≥ 98 %	As above and for alloy steel, e.g. steel with chromium and nickel content ≤ 30 %
W3	≥ 99 %	As above and for high-alloy steel, e.g. steel with chromium and nickel content > 30 %

WHICH NORM IS THE BASIS FOR THE TEST?

- Unit meets safety and health demands according to DIN EN ISO 21904-2 (2020).

Tested at IFA (Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (Institute for Occupational Safety and Health of the German Socail Accident Insurance)) - former BGIA.

FILTER LOAD?

Welding smoke class	Max. filter load	Min. filter load
W3	70 m³/m²/h per filter	30 m³/m²/h per filter

WHY SELECT A W3-UNIT?

- The unit is tested by an international recognized institute.
- Gives optimal protection of staff members at use of unit.
- Well-documented unit, which easily is approved by governmental authorities.
- Ensures at W3 guaranteed and documented observance of emission limit of 99% for welding smoke according to the guidelines of Danish Environmental Protection Agency.

WHICH UNITS FROM GRAM CLEAN AIR A/S ARE TESTED?

Following filter units from Gram Clean Air A/S are available in W3-versions with test certificate:

Filterline type FL



W3

Cyclone filter type ACF



W3

Mobile filter units type SFPM1 and SFPT1



SFPM1/
W3



SFPT1/
W3

