

## **Final (H)EPA GT Compact Filter**



Roughly 70%-85% of power capacity loss in gas turbines is attributable to compressor fouling. Initial efforts to resolve this problem usually focus on online and offline compressor washing. However, these measures restore capacity only marginally and, more importantly, do not prevent long-term damage to rotor blades from particulate impact.

EMW® (H)EPA compact filters address the problem at its roots, removing particulate matter from the inlet air before it can enter the gas turbine and cause fouling and corrosion there. Our E12 Class (H)EPA filters provide over 99.5 % efficiency in removal of even the smallest microparticulates. EMW® offers a wide-ranging product portfolio, permitting selection of the best (H)EPA compact filter for your gas turbine, whatever its design, site air conditions or the operating mode employed. Modification of the existing filter house is typically not required. Our (H)EPA filters provide up to 40 m<sup>2</sup> media area in a single compact filter unit. Benefitting from low initial pressure drop and expertly engineered prefiltration technology, they routinely achieve service lives of 2-3 years or 16,000-24,000 operating hours.

For 3D-animations and further details pls. visit <https://www.emw.de/en/products/compact-filters/hepa-compact-filters-gt.html>

## Technical Data – Final (H)EPA GT Compact Filter

Quality characteristic	Technical data	Test method
Frame	Polystyrene HI (PS-HI)	
Size	592 x 592 x 450 mm	DIN ISO 2768 T1c For deviations see the drawing
Sealing	Polyurethane (PUR)	
Filter media	Wet laid, water resistant glass fibre media	
Filtration area /	gross: 40 m <sup>2</sup> effective: 33.5 m <sup>2</sup>	
Initial pressure drop	130 Pa @ 3400m <sup>3</sup> /h <b>135 Pa @ 3581m<sup>3</sup>/h</b> 175 Pa @ 4250m <sup>3</sup> /h	
Filter class	E11	EN 1822
Efficiency value @MPPS	97.866% @MPPS of 0.146µm	EN 1822
Recommended final pressure loss	650 Pa	
Temperature resistance /	80 °C	

*The test data given constitute mean values subject to manufacturing tolerances and shall not in any way release users from the need to conduct their own trials, studies and tests. Furthermore the test data given are intended merely as general performance descriptions and shall not in any way be construed as guarantees of properties or durability.*

# Drawing MPK 4X - 40 GT

