



Poret® Coalescer Media

100% washable and reusable for years.

Our Filter Systems

Coalescer Unit

Coalescer elements remove entrained droplets from inlet air, preventing them from contaminating downstream filters. The physical mechanisms involved can be illustrated using the simple example of fog in ambient air. Fog is composed of tiny microscopic water droplets approximately 10–40 micrometers (μm) in diameter. As these droplets are collected in the coalescer, they agglomerate and their average size and weight increase. No longer buoyant in air, these larger droplets are separated off downwards by gravity.

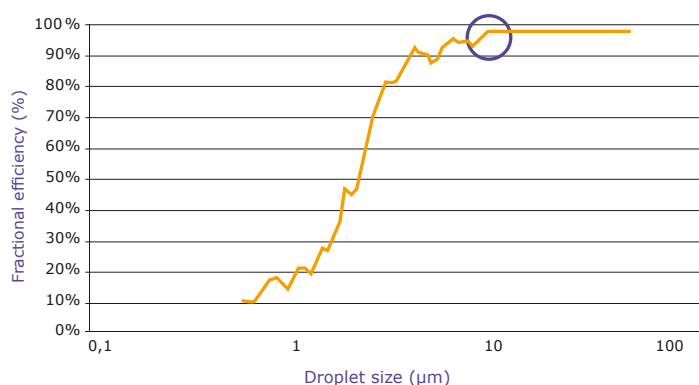
EMW® offers with PORET® a coalescer media providing efficient moisture removal from gas turbine inlet air streams. PORET® in particular provides impressively long service life. PORET® can be washed and reused again and again – without affecting its pore structure or filtration efficiency.



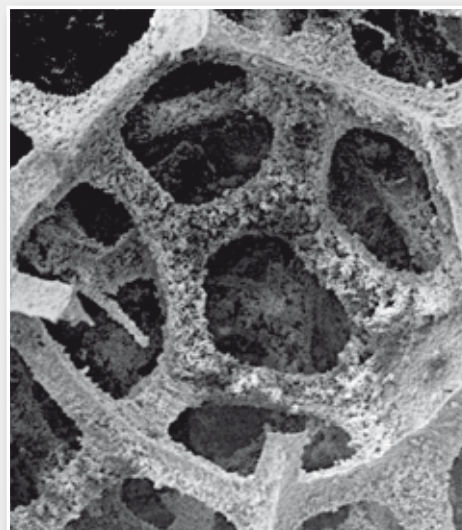
Type	CDS-P
Filter media	filter foam
Dimensions	mm 592 x 592 x 48 inch 23.31 x 23.31 x 1.89
Air flow rate	3400 m ³ /h (2000 cfm)
Test aerosol	water droplets
Initial pressure drop	65 Pa (0.26" wg)

Also available on request in cut-to-size sections or in replaceable plastic frames.

Droplet Removal Testing of EMW CDS-P Coalescers



In the commonly encountered droplet size range of $>10 \mu\text{m}$, CDS-P coalescers achieve a separation efficiency of 90% – 100%.



No pore clogging, even at high dust contents – with PORET® foam media.