

filtertechnik.Europe DAC Solutions

Permeable Metal Adsorbant Retainer



fteu® Permeable Metal Adsorbant Retainer (PMAR) for DAC air contactors: customer-specific design based on customer function parameters or using existing customer design - your partner from design to prototype to series

- Max permeability for min differential pressure and maximum air throughput
- High durability for long-term function and usage
- Easy cleanability of stainless steel material and (dis)assembly-friendly design
- Max adsorption through consistent flow through adsorbant
- Permeable Metal (PM) specification for best flow characteristics and precise adsorbant retention
- Stable lightweight construction and retainer integrity with solid continuous metal bonds
- High retainer integrity and quality through continuous and solid seams between components
- Production scalability to series volume and adaptability in design iterations through modular design

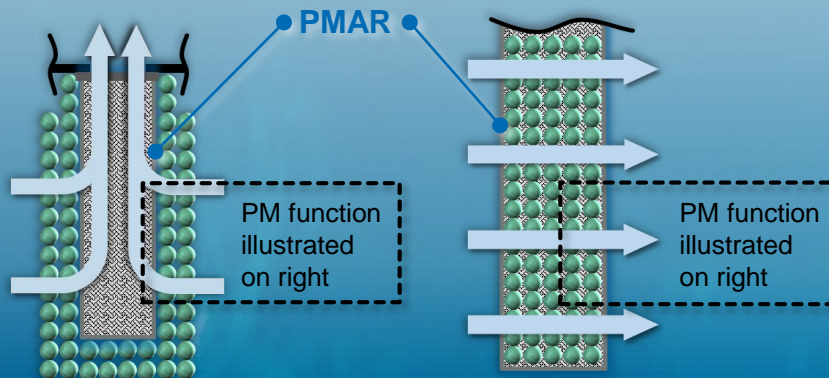
Max Air Throughput & Max Carbon Retention

PMAR application options (cross section):

- A) optimized air outlet b) contain & „hold“ adsorbant

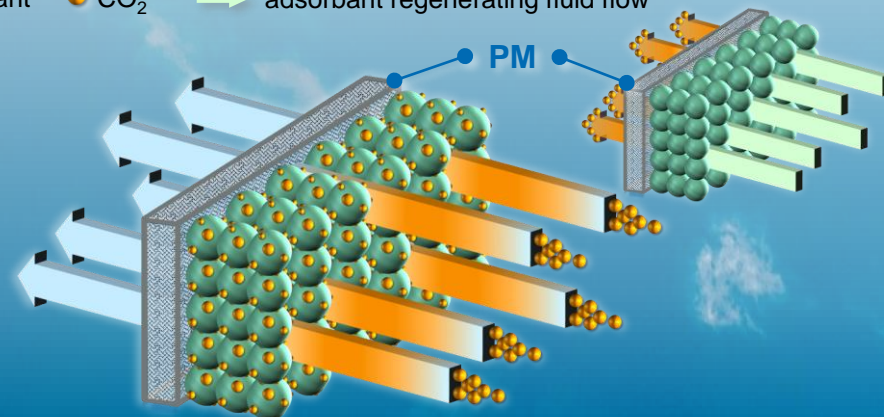
principle illustrations – not to scale

→ air flow ● adsorbant ● CO₂ → adsorbant regenerating fluid flow



PM function (focus PM only, exc. of full PMAR view on left):

- retain adsorbant binding CO₂ release adsorbed CO₂



Function in Permeable Metal

flow

filtration

conduction

absorption

handling

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Max Air Throughput & Max Carbon Retention

Function-focused engineering by permeable metal expert engineers for exploitation of available space, stable-lightweight-highflow PM performance and production-feasible design

Minimized lead-time from 1) design to prototype and 2) validated prototype to series-routine and 3) delivery of full batch production volume

Customer performance oriented quality control from raw material grade to finished PM adsorbant retainer based on customer requirements, industry norms and fteu® PM function norms exceeding ISO industry stds.

filtertechnik.Europe **fteu®**
your partner for engineering and production from metal raw material to PM customer product – engineering, qualification, production, logistics, service

DAC PMAR engineering in Heinsberg, Germany; production in Germany and P.R. China
ISO 9001 IATF 16949 certified

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Function in Permeable Metal



flow



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absorption



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