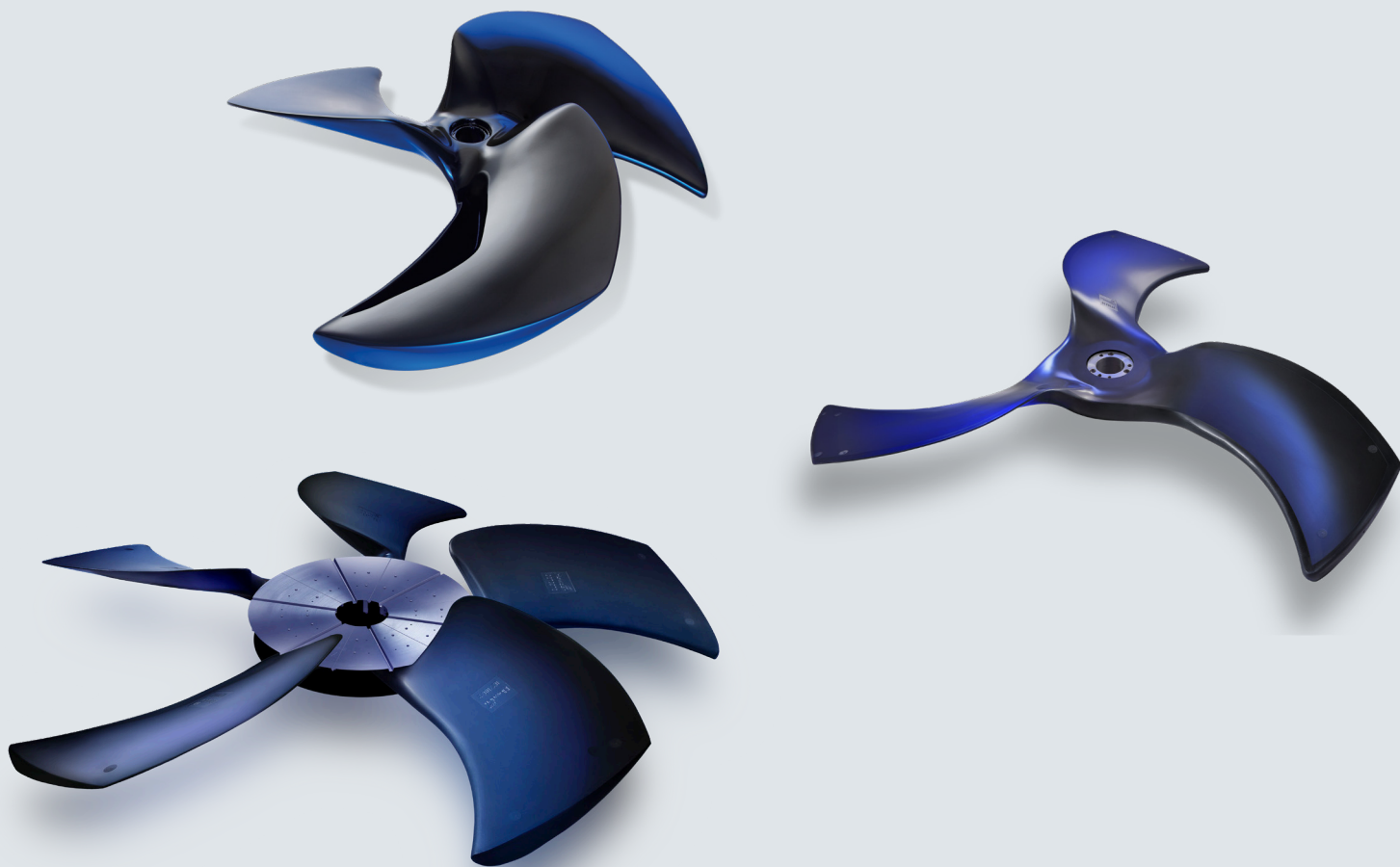


Direct Air Capture fans

Capturing CO₂ from ambient air



Supporting you today, to
create a sustainable tomorrow



Existing presence and
experience supports
Carbon Capture



Tailored solutions for all
CCUS technologies and
sectors



Over 10 years involvement
in fundamental CCUS
research



Varied pressure
levels solutions

**The optimum efficiency in direct air provision
combined with extremely low noise and high
output performance.**

Direct Air Capture (DAC) is the process of capturing CO₂ directly from the ambient air through a recirculating fluid or a solid sorbent. This process generates a concentrated stream of CO₂ for sequestration, utilization, or production of carbon-neutral products.

What is Howden's role in Direct Air Capture?

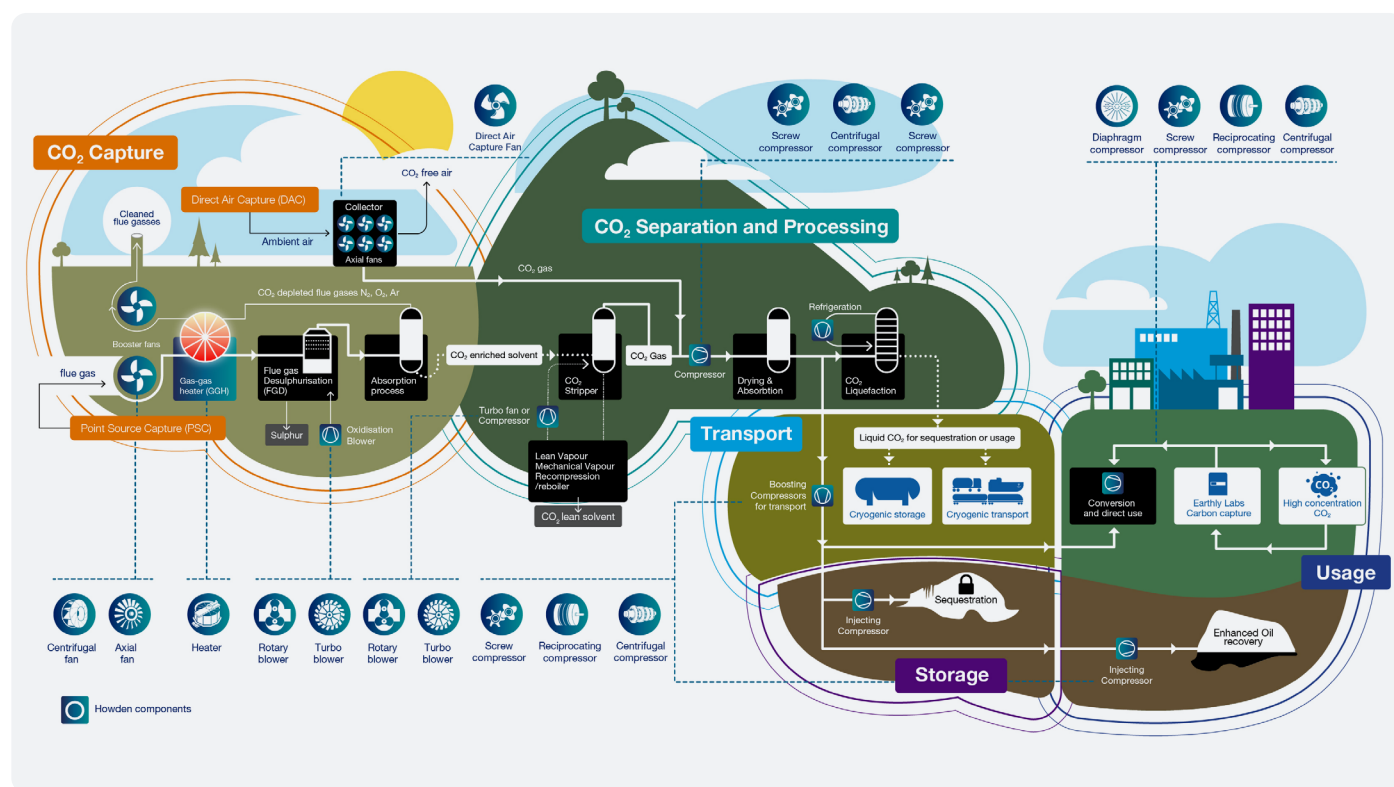
Howden provides air capture fans that would be mounted on a DAC tower or absorption unit to draw ambient air through a recirculating fluid, or through a solid sorbent that traps the CO₂ from the ambient air. From there the CO₂ can be used or sequestered. Howden has developed expertise with different fan technologies, for varied pressure levels, these fan ranges are proven across multiple industrial processes and applications and give us the ability to match the best fan for each DAC system.

The FPX-Series uses fixed-pitch ultra-low noise blades. Manufactured as a single-piece impeller or as a complete unit, offering very easy assembly and minimal maintenance combined with an ultra-low noise design. It is available in a wide range of diameters (air capacities) with different blade profiles and blade arrangements, to meet the exact specification of your DAC and/or low-noise project. We can deliver in multiple ways; standalone fan, fan complete with casing or as a fully pre-assembled unit with suitable drive.

For even higher demands in air supply, we can scale up extensively and deliver our excellent low-noise SX-Series of fans, like the SXT or SXM, or SX till 1000 m³/s, or the well-proven E-or D-Series.

For very high pressures we have several options and solutions within Howden in the form of UMAF fans and engineered Direct Air Capture fans.

Our Direct Air Capture fans offer the ability to achieve optimal performance combined with increased efficiency and low sound pressure. In addition, easy installation/maintenance and a much smaller footprint, results in explicitly lower OPEX costs overall.



Howden your collaborative innovative partner in DAC solutions

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