

Future-proof cooling
solutions for:

Direct Air Capture. DAC.



Precise temperature control.

For maximum efficiency in direct air capture processes.

Direct Air Capture (DAC) filters CO₂ directly from the ambient air. Maintaining constant temperature conditions is essential to ensure the long-term efficiency of DAC systems. Precise temperature control, both heating and cooling, ensures a stable process and enables energy-efficient recovery through targeted heat exchange during regeneration phases.

Why cooling & heating solutions are crucial in the DAC process.

Renowned companies are already using compact DAC modules for CO₂ recovery in urban and industrial applications. Reliable temperature control, especially during adsorption and desorption, is essential for the long-term and efficient operation of their systems.

In the future, our cooling solutions will help to keep such systems running efficiently and durably. In stationary and mobile environments.



Our 100% custom-designed series cooling systems offer:



Extended service life
of the filter material.



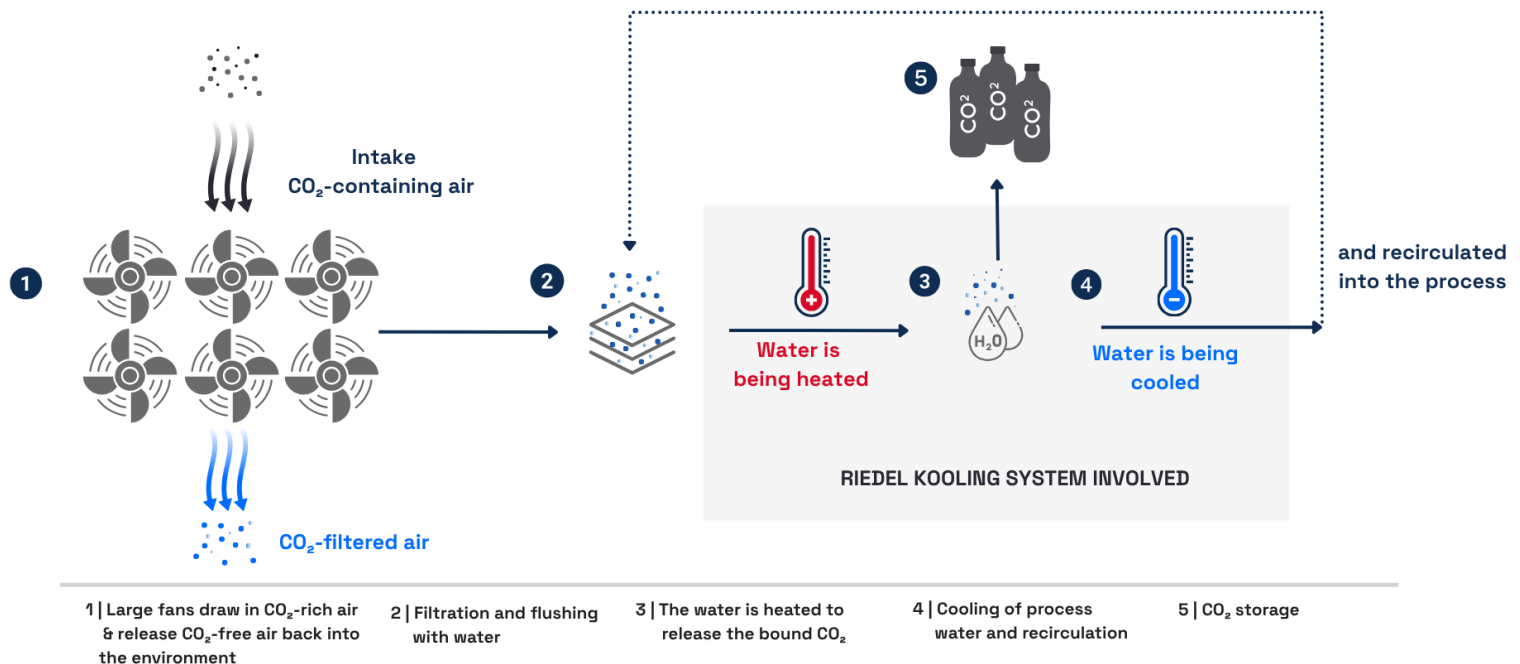
Energy efficiency through
controlled temperature
management.



Process reliability in all
operating phases.

Efficient CO₂ removal with DAC & Riedel Cooling.

In a modern Direct Air Capture (DAC) system, ambient air is drawn in by large fans and passed through chemical filters that selectively bind carbon dioxide. This multi-step process ensures effective CO₂ separation and environmental sustainability. Riedel Cooling solutions play a critical role in this process ensuring precise temperature control during CO₂ release, efficient heating and cooling of process water and reliable recirculation.

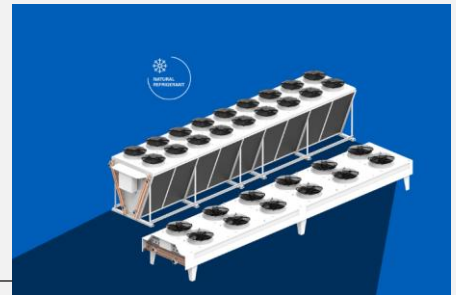


Our cooling solutions for DAC applications.



Global Chiller Platform.
Cooling capacities up to 200 kW.

Kool°F. Drycooler



Kool°W. Water-Management-Systems

Kool°H. Heat pump solutions up to 2,000 kW



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