

FLEXIPAC® CP™ STRUCTURED PACKING

AN ADVANCED POST-COMBUSTION CARBON CAPTURE SOLUTION

Koch-Glitsch, a Koch Engineered Solutions business, has developed the FLEXIPAC® CP™ structured packing product line specifically for the post-combustion carbon capture market.

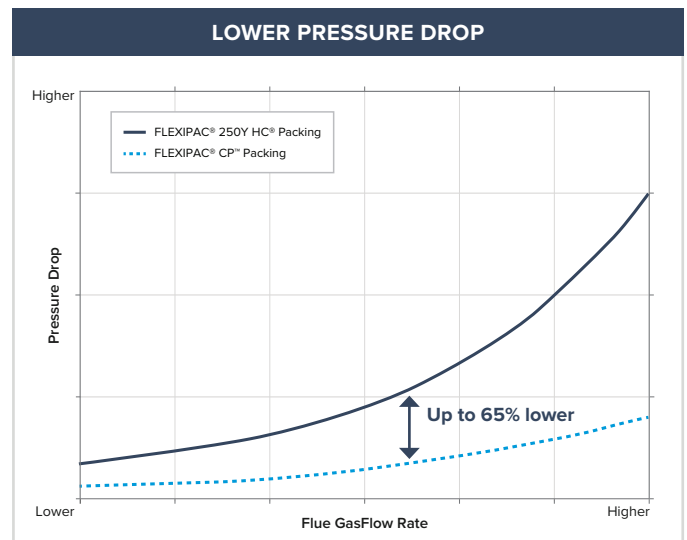
Offering superior capacity, capture efficiency, and lower pressure drop than traditional structural packing, FLEXIPAC® CP™ structured packing delivers value to customers through reduced capital expenses, reduced operational expenses, and high capture rates.

Building on our more than 50-year history supplying packing for carbon capture applications, this innovative product can be optimized to the operating conditions of your plant.

Lower pressure drop with higher capture efficiency

FLEXIPAC® CP™ structured packing provides a pressure drop reduction of up to 65% compared to existing structured packings used in post-combustion carbon capture service, offering superior capacity, capture efficiency, and lower pressure drop. The low pressure drop and high capacity of FLEXIPAC® CP™ structured packing allows for:

- ▼ Reduced column diameter or packing height
- ▼ Reduced energy consumption
- ▼ Reduced solvent flow rates
- ▼ Reduced installation time and cost
- ▼ Reduced packing volume



*Results based on real data taken with commercialized amine solvent tested at the Koch-Glitsch R&D facility in Wichita, KS.

Did You Know?

Koch-Glitsch operates its carbon capture pilot facility at its company headquarters in Wichita, Kansas. Performance of FLEXIPAC® CP™ structured packing has been validated at this in-house pilot facility. Testing was completed with a range of typical point source CO₂ concentrations for post-combustion applications with a variety of amine solutions.



Superior Performance

While increasing the crimp size of structured packings can offer reduced pressure drop and higher capacity, there are a couple of trade-offs: lower efficiency and increased packing height. With FLEXIPAC® CP™ structured packing, this lower pressure drop and capacity is achieved without sacrificing efficiency.

The optimization of FLEXIPAC® CP™ structured packing for carbon capture improves its efficiency compared to existing X-crimp structured packings in addition to the lower pressure drop and higher capacity. This allows for a packing height reduction or reduced operating expenses due to lower recirculation and regeneration requirements with the same packed height. The improved efficiency of FLEXIPAC® CP™ structured packing allows for:

- ▼ Allows for reduced column height or reduced diameter
- ▼ Reduced overall pressure drop due to less packed height
- ▼ Smaller packed height allows for less structured packing volume and brick quantity for shorter installation
- ▼ Higher capture efficiency for same packed height
- ▼ Reduced required solvent recirculation and regeneration for same packed height

Superior Economics

With these benefits of FLEXIPAC® CP™ structured packing compared to existing structured packings, Koch-Glitsch provides flexible solutions for post-combustion carbon capture applications and project goals without sacrificing capture efficiency, such as:

- ▼ Reduced capital expenses
- ▼ Reduced operational expenses
- ▼ Meeting column height & plot space limitations
- ▼ Meeting higher CO₂ capture efficiency



**Partner with us to
achieve your carbon
capture goals.**

Our collaborative approach to carbon capture can unlock the full potential of your projects.