



# A CARBON NEUTRAL FUTURE STARTS TODAY

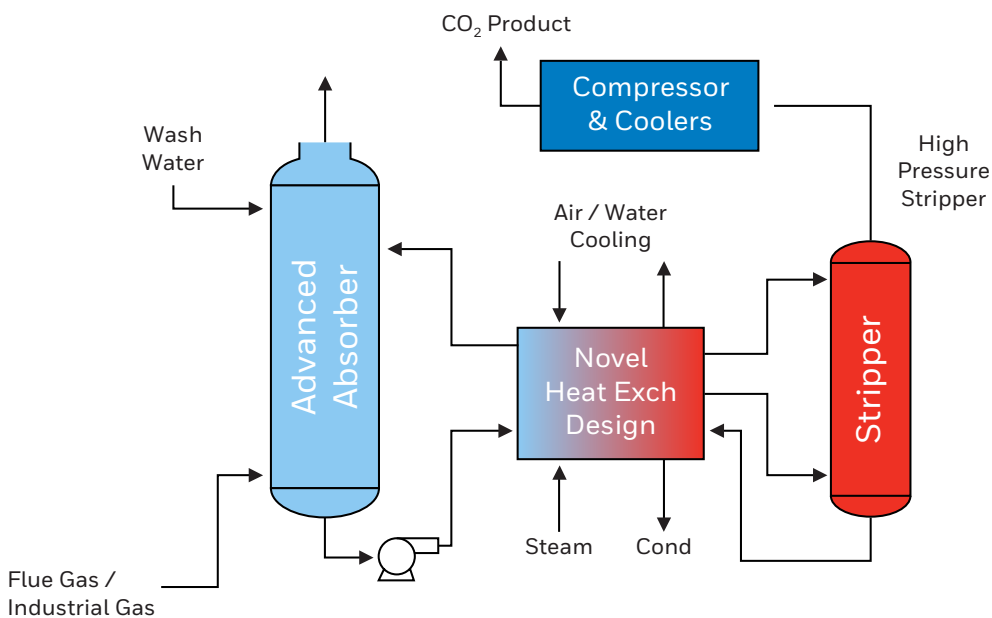
Advanced Solvent Carbon  
Capture Technology

**Honeywell**

# EFFICIENT CAPTURE OF POST COMBUSTION CO<sub>2</sub> EMISSIONS

Honeywell CO<sub>2</sub> Solutions help you meet tighter emissions goals and set your company on the path towards carbon neutrality. With more than 70 years of experience, Honeywell offers a full portfolio of carbon capture technologies, including a new Advanced Solvent Carbon Capture (ASCC) technology developed by leading researchers at the University of Texas (UT) at Austin.

ASCC combines Honeywell UOP engineering expertise and UT's 20+ years of research in amine-based scrubbing to help reduce CO<sub>2</sub> emissions. The advanced solvent technology captures CO<sub>2</sub> from flue gas, so it can be utilized or stored instead of entering the environment. The patented, innovative design enables lower-cost capture of CO<sub>2</sub> emissions from power plants and heavy industry.<sup>1</sup>



## FEATURES AND BENEFITS:

- High stability that enables higher pressure stripper & lower solvent makeup rates
- High mass transfer rate from a smaller, more advanced absorber with proprietary internals
- Novel heat exchange customized to solvent and its properties
- High stripper pressure leads to reduced CO<sub>2</sub> compression
- Carbon capture technology demonstrated at pilot scale

### Patented advanced solvent with optimal properties for applications including:

- Hydrogen plants
- Power
- Steel
- Cement
- Natural gas

1. Lower cost of CO<sub>2</sub> capture based on comparing estimated capital and operating costs of this solution against other conventional amine solvents in same applications. CO<sub>2</sub> pricing considers current policies of \$50/ton tax credit (USA per IRS Section 45Q for permanent storage) and \$60/ton (UK and Europe – approximate averages from August 2021 thru country/regional Emission Trading Systems and as reported by IHS Markit).

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THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT

**Honeywell**