





### BLOWER & VACUUM SYSTEMS FOR

# Carbon Capture Utilization & Storage

#### **Blower & Vacuum Solutions for Key Industry Segments:**





Pre-Combustion Carbon Capture



Post-Combustion Carbon Capture

Carbon Capture Utilization and Storage (CCUS) technologies are providing solutions to some of the world's biggest sustainability challenges, including:

Capturing CO2

- Transporting CO2
- Using CO2 and converting it into fuels or chemical raw materials
- Short Term CO2 Storage
- Long Term CO2 Storage & Sequestration

### Hoffman & Lamson Multistage Centrifugal Blowers

A reliable, durable, and low-maintenance technology backed by a renowned global company and world-class service support team, Hoffman and Lamson multistage centrifugal blowers can be sized and customized for unique applications and feature:

- Motor sizes up to 3,000 hp
- Maximum pressure up to 24.7 psig
- Inlet capacity up to 41,000+ scfm
- Up to 10 impeller stages









## Nash Vacuum Portfolio

Capturing and removing CO2 almost always involves a filtration of sorption technique – either physical sorption (VPSA or membrane) or amine-based chemical sorption, whichever stage in which the carbon capture happens. Nash vacuum technologies can be sized and customized for unique applications and feature:

- Liquid Ring, Dry Claw, Dry Screw Technologies
- Booster & Hybrid System Offerings
- <1"HgA
- Maximum 20,000+ acfm



### Common Sub-Processes for the Carbon Capture Industry



#### Pre-Combustion Carbon Capture

- Fuel Feed to Combustion Chamber
- Air Feed to Combustion Chamber
- Flue Gas Feed to CCS Unit (Adsorber-Stripper)



- Air Feed Separation
- Gas Feed Separation



#### Post-Combustion Carbon Capture

- Fuel Feed Gasifier
- Air Separation Unit
- Oxygen Feed to Gasifier
- Nitrogen Byproduct Processing
- Slag & Ash Pneumatic Transport