

## CiCi<sup>®</sup>Elm



Reduce CO<sub>2</sub> costs, delivery fees, surcharges, force majeure pricing



Reduce risk of revenue loss due to CO<sub>2</sub> shortages and supply chain volatility



Reduce CO<sub>2</sub> emissions & advance carbon net zero goals



Improves safety of operations

### CO<sub>2</sub> Capture Potential by Elm Model Type

Models	Total CO <sub>2</sub> Volume Est.	Range CO <sub>2</sub> Capture per Hour
CiCi <sup>®</sup> Elm-150	600 tonnes	40-68kgs/hour processing rate *capable to turn down to 30 kgs/hr
CiCi <sup>®</sup> Elm-300	1,200 tonnes	80-135kgs/hour processing rate *capable to turn down to 70 kgs/hr

*\*If needs exceed this range, Earthly Labs can customize CO<sub>2</sub> capture solutions to meet a clients needs.*

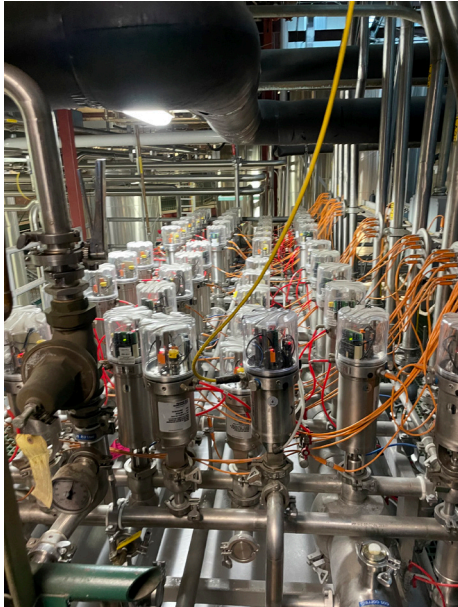
### Modular Design for Leaders Seeking to Reduce, Reuse, and Recycle CO<sub>2</sub> Emissions



Capture CO<sub>2</sub> from your fermentation and brite tanks

- Modular, standard skid design fits in small spaces and can be co-located or placed in multiple cellars
- Stainless steel design rated for indoor or outdoor placement
- Low energy and water usage to reduce other utilities and ensure carbon positive results
- Sensors measure oxygen, moisture, purity targets
- Automation to control CO<sub>2</sub> gas flow and vent processes
- Leverages Earthly Labs real-time CO<sub>2</sub> capture software to track, monitor and report CO<sub>2</sub> captured
- CO<sub>2</sub> Purity Capabilities: Yields beverage grade CO<sub>2</sub> 99.9% or better

### Ways to Accelerate a Total Return on Investment (ROI)



*Tie into existing automation*

- Pre-fabricated components and standardized solution offers shorter delivery and installation time
- Regeneration of scrubbing media to reduce operating costs (OPEX)
- Leverage existing stainless piping, smart foam traps, CO<sub>2</sub> automation and CO<sub>2</sub> storage tanks
- Open skid design for routine maintenance access
- Lock-in Frame Cartridges enable ability to scale gas processing with growth
- Chart best in class pressure vessel design, manufacturing and welding



*Leverage existing or new Chart bulk CO2 tanks*



*Leverage existing smart foam traps*

### Utilities to be provided by client:

- Mains power supply
- Glycol
- Instrument Air
- Deoxygenated Water

Chart has an ambitious goal to reduce Greenhouse Gas (GHG) intensity by 50% before 2030 and achieve carbon neutrality by 2050.

For latest news and product details visit: [chartindustries.com/earthlylabs](https://chartindustries.com/earthlylabs)