

## Reclaimer Services

- Reclaiming/purifying amine hindered amine and/or aqueous solutions (single, mixed, formulated) solvents such as mono-ethanolamine, di-ethanolamine, methyl diethanolamine, tri-ethanolamine, etc.
- Reclaiming/purifying glycols such as mono-ethylene glycol, di-ethylene glycol, and tri-ethylene glycol.
- Separation and purification of amine solvents from glycol solutions and vice versa.
- Purification of several industrial chemicals, solvents, and hydrocarbons.

## Potential Clients

Oil and Gas Production Facilities, Natural Gas Processing and Sweetening Facilities, Crude Oil Refining, Petrochemical Complex (i.e. Ammonia Plants & Hydrogen Production Plants), and Amine-based Pre-/Post-Combustion Carbon Capture Plants.



DELTA LCDesign® Technology ISO-Verified



Delta Reclaimer® at ACCTC Site,  
Calgary, Alberta, Canada

Version (May 2023)

## Overview

Delta Reclaimer® is a patented, unique, and simple thermal/vacuum technology for reclaiming and purifying single, mixed and formulated amine solvents, as well as glycols used in different industries. It has been designed to remove all high-boiling degradation products, ionic species, impurities, and fine suspended solids from these chemicals.

Delta commercial products are designed to meet the cleanup targets for our clients. Delta Reclaimer® can be designed to be mobile, semi-mobile or fixed units. Reclaimer units can be integrated to the existing facility and its utilities or can be standalone units with self-supplied utilities. The reclamation capacity can range from 0.1 - 15 Gallons per Minute (0.02- 3.5 Cubic Meter per hour).

## Delta's Vision Statement

Delta strives to be the Gas and Chemical Clean Technology of choice for The World's CO<sub>2</sub> Capture, Natural Gas Processing, Petro- Chemical Refining, Cement and Fertilizer Manufacturing Industries, and much more.



## DELTA RECLAIMER® Solvent/Chemical Purification System

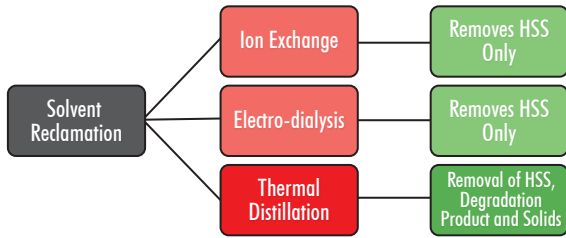


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# Recycling and Reclaiming Methods



## Issues with the Existing Thermal Reclaimers:

- Complex Design
- High CAPEX & OPEX
- High Energy requirement
- Large volume of generated waste
- Further solvent degradation
- Highly experienced operator requirement

## Delta Reclaimer® Features

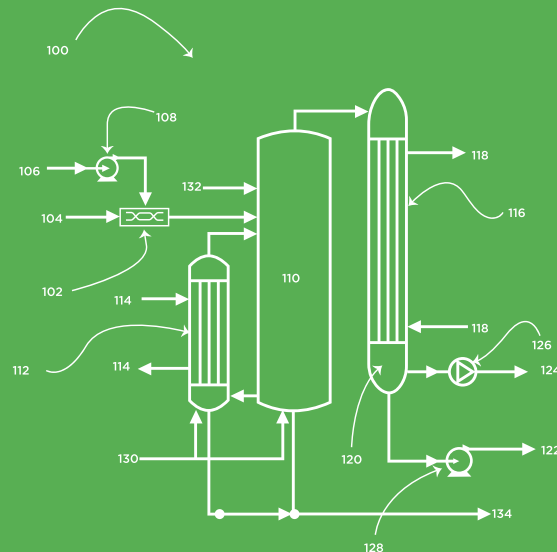
- Unique and simple system configuration
- Minimal waste for disposal
- Reduced utility consumptions
- Easy to operate and maintain, can be automated
- Higher recovery rate for solvents



Delta Reclaimer® Samples

# Highlights

- 1 Patented solvent and chemical reclamation and purification technology.
- 2 Reclaiming, Recycling & Reusing- industrial solvents that are utilized in CO<sub>2</sub> capture, oil refining, petrochemical production, natural gas processing, and hydrogen production.
- 3 Removes all impurities – proprietary process which removes every classification of impurities irrespective of feed concentrations or physical properties.
- 4 Cost Saving – customers can save as much as 25% on CAPEX & OPEX.
- 5 Delta can design, fabricate, and deliver Delta Reclaimer® to any clients in Canada and overseas.



# Intellectual Property

Delta Reclaimer® is patented in China, USA, Canada, Europe and Australia!

