

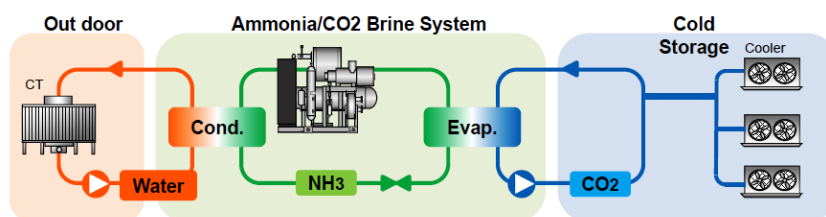
Summary of study: Refrigeration system in a food processing unit: Unit - 3

Industry : Food processing

Unit profile : A seafood processing unit located in Nellore (Andhra Pradesh)

Technology :

- $\text{NH}_3\text{-CO}_2$ brine refrigeration system



Application : Energy savings by installation of $\text{NH}_3\text{-CO}_2$ brine refrigeration system in the plant's new 2000-tonnes cold storage room

Year of investigation: 2018

Key features:

- $\text{NH}_3\text{-CO}_2$ brine refrigeration system that brings energy saving, high safety and easy maintenance
- New screw compressor
- Semi-hermetic IPM motor
- Flooded evaporator
- Double economizer
- Automatic operation

Energy and cost saving:

Details	Existing	Recommended
Cold storage system	—	$\text{NH}_3\text{-CO}_2$ brine refrigeration system
Energy saving potential		High