Air Separation Unit

An air separation unit is an industrial plant that separates atmospheric air into its primary components, such as nitrogen, oxygen, and argon. Typically employing cryogenic distillation, the unit cools air to extremely low temperatures, liquefying it and separating the components based on boiling points.

Overview

Industrial Air Separation Unit

This industrial Air Separation Unit (ASU) is designed to efficiently separate atmospheric air into its primary components: nitrogen, oxygen, and argon. Utilizing advanced cryogenic distillation processes, the system cools air to extremely low temperatures to liquefy it, allowing for precise separation based on boiling points. This high-purity output is essential for critical industrial applications, including steelmaking, chemical production, and medical gas supply.

Technical Specifications

Separation Technology	Cryogenic Distillation
Primary Output Gases	Nitrogen, Oxygen, Argon

Key Applications

Target Industries

- Steelmaking
- Chemical Production
- Medical Applications