

Online Degassing Equipment



Single Rotor Equipment Three Rotors Equipment Double Rotors Equipment

I. Equipment Model and Configuration

Model	Flow Q (t/h)	Number of rotors	Heating power (kw)	Residual aluminum amount	Lifting method	Tilting back-flow	Tilting release	Sealing detection device	Gas control system
EC-1R-6	6	1	24	720	Mechanical or hydraulic system	Optional	Optional	Optional	Ar or Cl ₂ + Ar mixture
EC-1R-10	10	1	24	850					
EC-2R-25	25	2	40	1200					
EC-2R-35	35	2	48	1980					
EC-2R-45	45	2	48	2600					
EC-3R-55	55	3	72	3000					
EC-3R-65	65	3	72	3300					
EC-3R-75	75	3	72	3600					

Tilting Back-flow



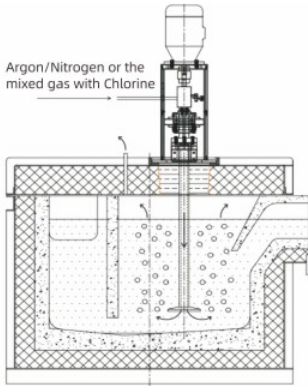
Tilting Release



II. Working Principle

The process gas is injected into the molten aluminum through the rotor and broken into uniformly dispersed tiny bubbles by the rotor. The tiny bubbles float up to the surface of the molten aluminum, and the following work is completed during the rising process of the tiny bubbles:

1. Hydrogen is adsorbed into the bubbles and released.
2. Alkali metals react chemically with chlorine to form chlorides and are released.
3. Impurities are captured by the bubbles and then carried up to the surface of the melt.



III. Equipment Performance

1. Degassing Effect:
 - ① Mg content ≤ 1%: Degassing efficiency ≥ 60% or outlet hydrogen content ≤ 0.12ml/100g Al.
 - ② Mg content > 1%: Degassing efficiency ≥ 55% or outlet hydrogen content ≤ 0.14ml/100g Al.
 2. Heat Preservation Effect: Shell temperature rise ≤ +45°C or shell temperature ≤ 65°C.
 3. Lining Service Life: More than 3 years.
 4. Chlorine System: Using argon-chlorine mixed gas can improve the hydrogen removal efficiency and effectively remove alkali metals such as sodium, calcium and lithium.
 5. Intelligent Informatization of Control System: To realize the interconnection between mobile phones and equipment, to understand operating parameters in real-time. When the equipment fails, the control system can give timely reminders.
 6. Intelligent reminder for equipment maintenance.
- To ensure regular maintenance of various equipment components and reduce equipment failures.

IV. Case Display

