

Deep Bed Filter Equipment

I. Application Scope

Applied to batch and continuous production lines, replacing plate-type filtration, increasing the filtration capacity and ensuring stable product quality.

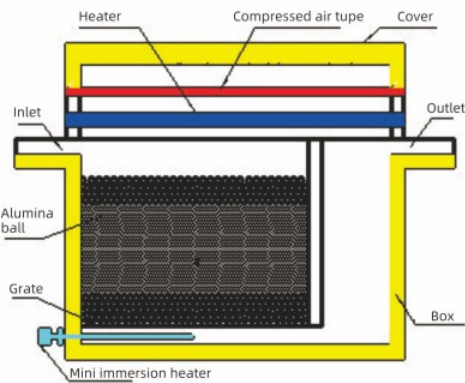
Applied to the casting production of large-scale thin materials, such as can materials, foil materials, PS plates, bright anode foils, capacitor foils, etc. For the effective filtration of a large number of inclusions in the aluminum liquid.

Can reduce labor costs and energy consumption (compared to plate-type filtration). Realize semi-automatic production and comprehensively reduce production costs.



II. Deep Bed Filtration Principle

The aluminum liquid enters from the inlet of the deep bed equipment, passes through the filter bed (filter medium) for filtration, be filtered out the impurities, and the pure aluminum liquid flows out from the outlet of the deep bed.



III. Equipment Model and Parameters

Model	Treated aluminum liquid volume (t)	Power (kw)	Residual aluminum amount (kg)	Remarks
EG-SC-15	1000-4000	60	800	The purification capacity of the aluminum liquid is related to the size of the alumina ball, the aluminum alloy, and also related to the slag content in the aluminum liquid.
EG-SC-35	4000-6000	90	2000	
EG-SC-55	6000-9000	120	3000	
EG-SC-75	8000-15000	180	3800	

IV. Filtration Precision

Applicable to all alloys. Depending on the purpose of the deep bed equipment, the laying method and size of the filter medium are different.

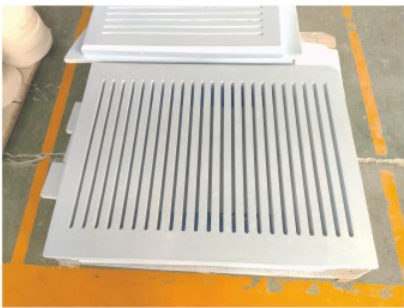
Lay the bed with a reasonable filter medium according to the production process requirements:

Filtration precision requirement (filtration efficiency above 90%)	Total thickness of medium (mm)	Different specifications of medium	Filtration effect equivalent to filter plate PPI	Filtration effect equivalent to cartridge group model
10 μm	500	SC-A	/	FC
20 μm	500	SC-B	European standard 60	FB
40 μm	500	SC-C	European standard 50	FA
80 μm	300	SC-D	European standard 40	/

V. Medium Description

Alumina balls and gravel: Uniform particles, with strong adsorption.

Grate: High fused silica material and N17 material. The high fused silica material has the performance of high strength, not easy to collapse during use, and low risk.



VI. Application Cases

