Lab Disc vacuum filter



Application

This machine is a kind of laboratory type newest filtration equipment which can filter intermittently or continuously. It is suitable for the laboratories and small factories of mineral processing, metallurgy, geology, chemical industry, building materials, petroleum, papermaking, artificial crystal and other departments to dehydrate products and separate solid-liquid phase.

The equipment has the advantages of simple structure, convenient operation, maintenance, reliable operation, stable performance, high filtering efficiency,

multi-purpose of one machine, etc. the effect is particularly significant for the minerals difficult to filter and the pulp with low concentration.

Main technical parameters

Model	ZL-⌀260/⌀200		unit
Filter disc	Fixed Filter disc：⌀260×80，⌀200×80 each one		mm
vacuum pump	ultimate vacuum	4000	Pa
	pumping rate	30	m^3/h
	Vacuum mercury column high	730	mmHg
Feeding size	0-0.8		mm
filter cake moisture	10-25		%
motor	power	1.5	Kw
Weight		160	Kg
dimensions		800×580×1100	mm

structure and working principle

The equipment is composed of case, small filter disc, drainage pipe, make-up water pipe, mobile filter disc, electric appliance, vacuum pump, vacuum tank, etc.

The equipment uses the negative pressure produced by the direct linked suspension duck water ring vacuum pump to pump and filter the pulp, which can continuously pump and discharge the filtered liquid. The vacuum pump is directly driven by a 1.5KW motor, which can generate a negative pressure of 560-650 Gongzhu during operation (when the altitude is 0). The filter system consists of large and small filter plates, pumping pipes, movable filter plates, vacuum tanks and vacuum meters, which is directly connected with the negative pressure area of vacuum pump, eliminating a complete set of devices such as air-water separation, etc., so that no shutdown is required during operation, filtrate and vacuum pump are directly pumped out, so as to improve the filtering efficiency, reduce the number of shutdown.