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elt Vacuum Filter

HM-BVF-P series belt vacuum drum filter is a filter equipment for continuous suction filtration, dewatering and automatic unloading under the action of vacuum. The product is especially suitable for concentration filtration and dewatering of materials with low solid liquid concentration, fine particle size and high viscosity.

HM-BVF-P series belt vacuum drum filter is solid liquid separation equipment with filter cloth type. In the process of work, under the action of vacuum suction, the material in the tank passes through the suction pipe into the distribution valve, and then from the outlet pipe of the distribution valve into the back row of the vapor-liquid separator. The solid remains on the filter cloth to form a filter cake, which is automatically discharged by the discharging roller driven by the traveling filter cloth. The filter cloth enters the cloth washing box through the automatic rectifying device, and is recycled under the double-sided washing of the high-pressure washing water. After the tensioning roller, the filter cloth returns to the surface of the drum to start the new filtering work.

Product Features:

- Personalized design to meet the needs of different customers;
- High production capacity, low wet of filter cake, easy to unload;
- Continuous automatic operation, simple operation;
- High clarity of filtrate and high recovery rate of materials;

HongMao relies on the professional design, the strict production management, the fine processing

procedure, provides the high efficiency and energy saving equipment system for the customer. Manufacturing factory has passed the international ISO9001 quality system certification, and with the design and manufacturing capacity of pressure vessels. Customers can choose international ISO, EU CE and other standards for equipment design and production according to their needs.

Technical parameter

Model	Filtering area, m ²	Protein output, T/D	Feed DS g/l	Discharge DS, %	Power kW	Overall dimension mm	Weight kg
HM-BDF10-P2.2	10.0	3-5	80-130	≥40	2.2	3000X2600X2400	6300
HM-BDF20-P3	20.0	5.5-8	80-130	≥40	3	3800X3000X2800	8200
HM-BDF25-P3	25.0	6.5-9	80-130	≥40	3	4200X3800X2800	9600
HM-BDF30-P4	30.0	8-10	80-130	≥40	4	5200X3800X3200	10600
HM-BDF35-P4	35.0	9.5-11.6	80-130	≥40	4	5700X3800X3200	11800
HM-BDF40-P4	40.0	11-13.2	80-130	≥40	4	6100X4200X3600	12500
HM-BDF45-P4	45.0	12-15	80-130	≥40	4	6600X4200X3600	13200
HM-BDF50-P4	50.0	13.5-16.5	80-130	≥40	4	7200X4200X3600	14300
HM-BDF60-P5.5	60.0	15-20	80-130	≥40	5.5	7200X4700X3900	15500
HM-BDF70-P5.5	70.0	17-23	80-130	≥40	5.5	7800X4700X3900	17000
HM-BDF70-P5.5	80.0	20-26	80-130	≥40	5.5	7800X5100X4200	20000

Pre-coating Vacuum Filter System

HVD-PVF-P series pre-coating vacuum filter works on the same principle as the general vacuum drum filter. The main difference is the filter aid (such as diatomite, perlite, etc.) precoating before filtering. When filtering, the filter aid in the tub under the effect of vacuum suction, to form the required thickness of the coating outside the drum surface, then feed the material, under the effect of vacuum suction, the separation of the filtrate through precoating and filter cloth, via the absorption liquid tube, fluid pipe, gas-liquid separator, and the solid particles is intercepted by the precoating. The filter aid surface is scrape by the automatically scraper feeding. When the residual thickness of the pre-coating is about 10mm, the pre-coating shall be reapplied for the next working cycle.

Application:

Filtrate and slag removal of various sugar liquids (glucose, maltose, dextrin, fructose, sucrose, etc.).
The filtration and slag removal of fermentation liquid such as tylenomycin and Dacamycin in pharmaceutical industry.

Filtrate and slag removal from fermentation liquid such as amino acid and enzyme.

Filtration and slag removal of wine mud and rice wine mud.

Filtration and slag removal in food, beverage and fruit juice industries.

Filtration and slag removal of waste water in chemical industry.

Carrageenan and other food additives filtration

Features:

Personalized design to meet the needs of different customers.

Precoating technology is used to make the filtrate more clear.

Automatic scraper discharge, high filtration efficiency.
The drum surface can be sprayed and good washing effect.
Series of process equipment, easy to install and use.
Superior production environment, simple and convenient operation.

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Technical parameter

Model	Filtering area, m2	Feed DS,%	Capacity (glucose)	Vacuum, MPa	Power, kW	Overall dimension, mm	Weight, kg
HM-PVF10-P2.2	10	30-35	0.32-0.56 m3/m2.h	0.04-0.06	2.2	2800X2200X2600	6000
HM-PVF20-P2.2	20				2.2	3600X2800X3000	8000
HM-PVF25-P2.2	25				2.2	4000X3600X3000	8500
HM-PVF30-P3	30				3	5000X3600X3300	9200
HM-PVF35-P3	35				3	5500X3600X3300	10000
HM-PVF40-P3	40				3	5800X4000X3800	12000
HM-PVF45-P4	45				4	6100X4000X3800	14600
HM-PVF50-P4	50				4	6400X4000X3800	15300
HM-PVF60-P4	60				4	6800X4200X4200	16300
HM-PVF70-P7.5	70				7.5	7200X4200X4200	17500