



## PSD800 Technical File

### 1. Use environmental conditions:

- 1.1 Altitude: not higher than 1000m;
- 1.2 Ambient temperature: highest +40°C, lowest -10°C;
- 1.3 Relative humidity: daily average is not more than 95%, the monthly average is not more than 90%;

### 2. The main technical parameters of the centrifuge

Flat hanging bag centrifuge

Drum diameter: 800mm

Drum wall thickness: 8mm

Shell thickness: 4mm

Maximum drum speed: 1200r/min

Maximum separation factor: 645

Effective volume: 100L

Maximum loading capacity: 140Kg

Centrifuge weight: 1500Kg

The size of the centrifuge: (L×W×H) 1800×1200×1350mm

Motor power: 7.5Kw

### 3. Centrifuge material requirements:

- 3.1 The material of the contact part between the centrifuge and the material is 304 stainless steel. Among them:
  - a. The drum wall is made of 8mm thick 304 stainless steel;
  - b. The column liquid plate is made of 8mm thick 304 stainless steel;
  - c. The outer surface of the bottom of the drum is lined with 304 stainless steel;
  - d. The casing and casing cover is made of 304 stainless steel;
  - e. The top and surroundings of the bottom plate are all lined with 304 stainless steel;
  - f. The bearing seat is lined with 304 stainless steel;
  - g. The feed pipe is made of 304 stainless steel.
- 3.2 All connecting bolts in contact with materials are made of 304 stainless steel;
- 3.3 The body of the bottom of the drum and the body of the bearing chamber are made of HT200



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cast iron;

3.4 The base body adopts Q235-A ordinary carbon steel plate;

3.5 The main shaft is 45# high-quality carbon steel;

## 4. Centrifuge quality and main technical requirements

4.1 The centrifuge design and manufacturing inspection shall be carried out in accordance with JB/T10769.2-2007 "Three-foot and flat-plate centrifuge technical conditions" and GB/T19001-2000idt ISO9001-2000 quality system standards. The quality and performance of the centrifuge are in line with the above Product standard specifications and corresponding technical requirements of this agreement.

4.2 The motor adopts frequency conversion speed regulation, and the centrifuge feeding, washing, and separation speeds can be adjusted randomly.

4.3 The centrifuge adopts the dynamic braking mode of the braking unit and braking resistor, and the braking performance is reliable.

4.4 Adopting a large flip lid structure, each centrifuge is equipped with a spring opening lid system and five quick-action locking buckles, the lid is light and dexterous, safe, and reliable; the lid is convenient and fast, and the sealing is good.

4.5 The material is fed by the feeding pipe, the cloth is uniform, and the whole machine runs smoothly.

## 5. The main configuration of the centrifuge:

5.1 Each centrifuge is equipped with one main electric control cabinet, which contains one 7.5KW inverter, one braking unit, and two braking resistors. The frequency converter is under the brand of India, and the electrical components are under the brand of China.

5.2 Each centrifuge is equipped with a 7.5Kw motor, Jiangyin Dazhong brand (such as the explosion-proof motor is the Jiamusi brand).

5.3 Each centrifuge is equipped with a large flip cover.

5.4 Each centrifuge is equipped with one lifting-type liquid blocking plate, and one filter cloth bag is installed randomly.