

Alfa Tech Tubular Separator series

Introduction

Alfa Tech Separator is specialized in manufacturing pharmaceutical machinery, especially professional in Separator and Centrifuge technology and manufacturing. The company processes rich technologies, advanced production facilities and perfect test measurements and has developed many high-tech products. It has got the quality certification of ISO9001;2008. Because of the advanced technology and reliable quality, the performance of the products has reached the advanced international level 21st century.

The company has won the support and trust from the customers due to its good reputation, reliable quality and first-class after-sale service. Thus the products are sold all over China. Furthermore, they have been exported to many countries in Eurasia.

The company's main products are as follows; Tubular centrifuges, Cup type precipitation centrifuges, 3-point setting centrifuges, 3-point filtering centrifuges and various centrifugal equipment, among which the tubular centrifuges are the "first" excellent and superior products. The machine can meet the requirements of GMP certification. And centrifugal equipment of various materials can be specially made for different users.

We are wholehearted to create brilliant future together with the friends at home and abroad!

Tubular Series Separator

GQ/GF Series Lab Separation System Separator



45 Model is mainly used in lab separation system. There are two type of model as follow :

45 GQLY can be mainly used in separation of suspended liquid difficult to be separated especially in separation of thin concentration fine particles, and in separation of suspended liquid of which the specific gravity difference between solid liquid phases is very small.

45 GQLB separator can be mainly used in separating of industrial emulsion difficult to be separated, especially suitable in separation of liquid with very small 2 phases specific gravity difference, and in separation of liquid solid 3 phases containing small impurity.

Main Parameter :

Type 45

Diameter (mm)	45
Bowl Speed (r/min)	10000-28000
Bowl Volume (L)	0.4
Separating Factors ($\omega^2.r/g$)	--19800
Though output Capacity (L/h)	~ 100
Motor Power (kw)	0.4 Monomial
Weight (kg)	90
Dimension (mm) L×W×H	500×420×760

GQLB-S Biological Type Tubular Separator



GQLB-S tubular separator is one kind of tubular separator series which is specially designed for biological production industry. In view of the great viscosity small volume and difficult separation features etc, this separator has been improved on the original general type in order to raise efficiency and increase out put .

And in view of the requirements of low temperature for biological making product cooling unit can be installed in order to meet the technological requirements .Check valve and bowl lining can be used in order to ensure bacteria alive and to prevent the materials from bacterial contamination in the bacterial separation technology.

Main Parameter :

Type	75	105	125	150
Diameter (mm)	75	105	125	142
Bowl Speed (r/min)	19000	16300	15000	13400
Bowl Volume (L)	2.2	6	8	10
Separating Factors ($\omega^2.r/g$)	15700	15700	15600	14300
Though output Capacity (L/h)	600	1200	1500	2500
Motor Power (kw)	2 ~ 1.5	2-2.2	2-3	2-3.0
Weight (kg)	150	450	470	500
Dimension(mm) L×W×H	810×570×1180	840×450×1550	840×450×1600	1020×600×1600

GFSY-Series Biodiesel Centrifuge Separator



GFSY biodiesel series tubular separator is professional designed for separation of different oil. GFSY biodiesel tubular separator is the first tubular separator which is used in biodiesel field in China. This unit is success equipped with many biodiesel plant and biodiesel lab system.

Main Parameter :

Type	1000	1200	1400	1600
Diameter (mm)	105	107	112	125
Bowl Speed (r/min)	16300	15000	15500	15000
Though output Capacity (L/h)	1000	1200	1400	2500
Motor Power (kw)	2.2	3.0	3.0	4.0

GFXB Blood Separator



Type GFXB tubular separator is one kind of tubular separator. GFXB tubular separator is the improved one on the base of the original separator and through experiment again and again. GFXB tubular separator can be extensively used in separating blood plasma and cell of human being pig cow sheep and chicken etc. The main feature of it is the high yield and the rate of broken blood cell can be reduced to the lowest extent. The contact parts between the separator and materials are made of stainless steel, which can meet the requirements of medicine production industry.

Main Parameter	:	
Type	105	112
Diameter (mm)	105	112
Bowl Speed (r/min)	16300	15500
Bowl Volume (L)	6	7
Separating Factors ($\omega^2.r/g$)	15700	15000
Though output Capacity (L/h)	1200	1600
Motor Power (kw)	2-2.2	3
Weight (kg)	450	650
Dimension(mm) L×W×H	840×450×1600	900×550×1700

GQLB-Z Series Tubular Separator



GQLB-Z Series Tubular Separator is one kind of the tubular separator series which is specially designed for Natural medicine production industry because of saponin、protein、polysaccharide etc. contained in Chinese medicine difficult to be separated, wadding settled still exists after liquid separation. The Chinese medicine type tubular separator can solve the above problems thoroughly without losing effective contents in the medicine. Consequently settling time can be shortened with increasing clarification efficiency and output. If users separate inflammable and explosive materials, please order explosion-proof motor or with airtight with vent tube before placing a order.

Main Parameter

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Type	75	105	125	150
Diameter (mm)	75	105	125	142
Bowl Speed (r/min)	19000	16300	15000	13400
Bowl Volume (L)	2.2	6	8	10
Separating Factors ($\omega_2.r/g$)	15700	15700	15600	14300
Though output Capacity (L/h)	600	1200	1500	2500
Motor Power (kw)	2 ~ 1.5	2-2.2	2-3	2-3.0
Weight (kg)	150	450	470	500
Dimension(mm) L×W×H	810×570×1180	840×450×1550	840×450×1600	1020×600×1600

GQLY Series Tubular Separator



GQLY series tubular separator is the improved one on the base of original machine type. All the machine types of various usage can be designed into the swinging type tubular separator. After separation, turn the machine cylinder 90° in clockwise, put out the bowl horizontally and then put it on the operation table specially made of stainless steel, and wipe out the solid phase. This machine has solved the problem of great labour intensity, it is convenient to be used to be operated by women workers. This machine is a new kind machine type with the most brightful development future.

Main Parameter :

Type	105	125	150
Diameter (mm)	105	125	142
Bowl Speed (r/min)	16300	15000	13400
Bowl Volume (L)	6	8	10
Separating Factors ($\omega^2.r/g$)	15700	15600	14300
Though output Capacity (L/h)	1200	1500	2500
Motor Power (kw)	2-2.2	2-3	2-3.0
Weight (kg)	450	470	500
Dimension(mm) L×W×H	840×450×1550	840×450×1600	1020×600×1600

Three point Centrifuge

SS3-Point Filter Centrifuge



The machine can be used suitably for filtering solid granular suspension, and also for dehydration suspension, and also for dehydration of fiber material and textile after printing dyeing and washing ,Feeding material from tip ,through trigonal belt of special2-speed motor ensures low speed starting and high speed separation, enabling the drum to set up centrifugal fore field. The liquid through solid phase and screen mesh can be drained off from liquid outlet in the bottom .The solid phase can be chained off from the tip after the machine stops. Main

Features

- 1 The structure is simple. It is convenient for operation and maintenance.
- 2 The generality of usage is very great.
- 3 All parts in contact with the materials are made of stainless steel in order to prevent pollution.
- 4 The hand brake can shorten the working period.
- 5 It can be used as rough separation equipment in the first process of the tubular separator.

Type	SS450	SS600	SS600-NC	SS800	SS800-NC	SS1000
Inner diameter (mm)	450	600	600	800	800	1000
Filtration area (m ²)	0.42	0.66	0.66	1.00	1.00	1.30
The Max carrying						
Capacity (kg)	30	100	100	135	135	200
Volume (L)	20	45	45	100	100	140
Bowl Speed (r/min)	2000	1420	750/1500	1200	750/1500	1080
The max separating						
Factor ($\omega_2.r/g$)	100	700	750	640	1000	640

SSC600-NG 3-Point Setting Centrifugal



It is a kind of centrifuge with skimming tube, suitable for clarifying suspension with medium size and fine particles. It is widely used in pharmaceutical, chemical and food industry etc. Also used as the main equipment for previous treatment process of the tubular separator.

Main Features:

- 1 There are 3 working modes for customers to choose according of different materials. They are continuous separation, interval separation, and one-time separation. The clarified liquid can be drained off from skimming tube or liquid baffle.
- 2 The separation factor is very high and the production capacity is great .Its hand brake can shorten the operation period.
- 3 Adopting centrifugal clutch can make the drum start slowly and avoid overload
- 4 All parts in contact with the materials are made of stainless steel.
- 5 The cover of drum and drum are designed into 2 bodies. Due to the novel and advanced structure it is convenient for wiping out the solid material making washing in all directions come true which accords with the GMP standard.
- 6 The structure is simple and is convenient for operation and maintenance.

Main Parameter

Inner diameter of Bowl : 600mm

The height of Bowl : 350mm

Speed of Bowl : 200r/min

The max separating factor : 1344

Volume : 56L

Settling area : 0.66m²

The Max carrying capacity : 100Kg

Motor : Y112M-4.0Kw

Dimension : L×W×H 1400×1200×1000mm

Weight : 685Kg

SS-N Type Three-point Centrifugal for whole stainless



This machine is a kind of undefined one, suitable for clarifying suspension with fine particles. It is made of whole stainless steel and accords further with GMP certification. It can be designed into settling type and filtering type to meet the separating requirement of different materials. It is widely used in pharmaceutical, chemical, food and light industry etc. also used as the main equipment for previous treatment process of the tubular centrifugal.

Main Feature :

- All parts are made of stainless steel in order to prevent pollution and bacterial contamination.
- The special filling oil system can meet the requirement of equipment in its perdurability and stability
- Due to the novel and advanced structure, it is convenient for washing and operating.
- It can be designed into the whole obturated one.

Main Power

Type	SS45	SS600	SS600-NC	SS800	SS800-NC	SS1000
	0					
Inner diameter (mm)	450	600	600	800	800	1000
Filtration area (m ²)	0.42	0.66	0.66	1.00	1.00	1.30
The Max carrying						
Capacity (kg)	30	100	100	135	135	200
Volume (L)	20	45	45	100	100	140
BowlSpeed (r/min)	2000	1420	750/1500	1200	750/1500	1080
The max separating						
Factor ($\omega_2.r/g$)	100	700	750	640	1000	640

Disk stack Centrifuge Series

DHSYS Series Biodiesel Centrifuge



DHSYS Series Centrifuge can be used in producing biodiesel oil (fatty acid methyl ester) by the ester permutation. It is one of high speed centrifuge which is our company special independent research development.

Biodiesel oil is one kind of oxo cleansing fuel, which has lots of merits, such as good lubrication, safe store, safe conveyance and so on. It is also one kind of good anti explored fuel, which can be re-used. In the other word, it is a kind of re-resource.

We can use vegetable grease, animal grease and other kind of lipoids through the new type ester permutation disc centrifugal to gain the biodiesel.

This kind of disc centrifuge can separate the mixture into heavy phases (glycerol & easter) and light phases (biodiesel) in the mean while it can also discharge spots of solid impurity. The separating process is continuous, sealed and controlled by PLC.

Main technical parameter :

DHSYS270

Production capacity : 1000-1500L/h

Bowl speed ; 7302rpm

Motor power : 4Kw

Net weight : 550kg

Gross weight : 580kg

Overall size : 950 x 950x 1250mm (LxWxH)

DHSYS380

Production capacity : 1500-2000L/h
Bowl speed ; 7069rpm
Motor power : 7.5Kw
Net weight : 810kg
Gross weight : 850kg
Overall size : 1500 x 1100x 1500mm (LxWxH)

DHSYS500

Production capacity : 4000-4500L/h
Bowl speed ; 6626rpm
Motor power : 15Kw
Net weight : 1560kg
Gross weight : 1600kg
Overall size : 1770 x 1500 x 1855mm (LxWxH)

DHSYS550

Production capacity : 8000-9500L/h
Bowl speed ; 6147rpm
Motor power : 22Kw
Net weight : 2200kg
Gross weight : 2250kg
Overall size : 1970 x 1560x 1970mm (LxWxH)

DHKYS Series Mineral Centrifuge



DHKYS series centrifuge is mainly used for eliminate mineral oil s water and mechanism impurity for vessel main engine, land diesel power plant ,equipment fuel and lubricating oil in order to decrease the diesel and other equipment fuel and lubricating oil in order to decrease the diesel and other equipment abrasion, prolong the life-span.

The product also can be applied for petrification industry wasting oil.

The main parameter as follow :

DHKYS 240

Production capacity : 1800-2000L/h

Bowl speed ; 7302rpm

Motor power : 4Kw

Net weight : 550kg

Overall size : 950 x 950x 1250mm (LxWxH)

DHKYS 260

Production capacity : 2000-2200L/h

Bowl speed ; 7302rpm

Motor power : 4Kw

Net weight : 650kg

Overall size : 1050x1080x1450mm (LxWxH)

DHKYS 380

Production capacity : 3000-4000L/h

Bowl speed ; 7069rpm

Motor power : 7.5Kw

Net weight : 810kg

Overall size : 1500 x 1100x 1500mm (LxWxH)

DHKYS 500

Production capacity : 4200-5400L/h

Bowl speed ; 6626rpm

Motor power : 15Kw

Net weight : 1560kg

Overall size : 1772x1500x 1855mm (LxWxH)

DHNRS580 Milk Separator



DHNRS series disc centrifuge is one of the most precision equipment in milk production plant. It is mainly used in degrease and clarification of milk. It can also be used in the similar separation material clarification and purity. All the contact parts with material are made in stainless steel. According with the requirement of food sanitation. The design, manufacturing and inspection of the centrifuge are according with the national standard GB10897 and GB10898.

Main technical parameter :

DHNRL 270

Production capacity : 3000-4000L/h

Bowl speed : 7302rpm

Motor power : 4Kw

Net weight : 550kg

Overall size : 950x950x1250mm(LxWxH)

DHNRL 380

Production capacity : 4000-5000L/h

Bowl speed : 7069rpm

Motor power : 7.5Kw

Net weight : 810kg

Overall size : 1500x1100x1500mm(LxWxH)

DHNRL 500

Production capacity : 6000-8000L/h

Bowl speed : 6626rpm

Motor power : 15Kw

Net weight : 1560kg

Overall size : 1772x1500x1855mm(LxWxH)

DHNRL 580

Production capacity : 15000-20000L/h

Bowl speed : 4900rpm

Motor power : 22Kw

Net weight : 2200kg

Overall size : 1970x1560x1970mm(LxWxH)

DHC Series Disc centrifuge



Main usage: It is fit for the separation of liquid-solid and liquid-liquid-solid when the solid content is between 1%-15% and the diameter of solid particles should be more than 0.5 micrometer. Such as oil: It can be used for the separation and clarification of vegetable oil, animal oil, fish oil, oil concentrate, crude oil, fuel oil, lubricating oil; it also can be used for the separation and clarification of daily food; it can be used for the clarification of food, juice, beer; it can be used for the separation and clarification of fermenting liquor; it is used for the extraction of pharmaceutical, bacterin, mycelium, glucose, insulin, vitamin, antibiotics. It can also be used for chemical industry for example: It can be used for the recovery of dry cleaning solvent, zinc galvanizing liquor, aluminium sulfate liquor, tar and water mixture, PVC, silver (film processing), activator and magnetite.

Technical Parameter :

DHC/DRY 250

Production capacity : 2000-3000L/h

Motor power : 7.5Kw

Net weight : 1000kg

Overall size : 1168x900x1263mm(LxWxH)

DHC/DRY 400

Production capacity : 5000L/h

Motor power : 7.5Kw

Net weight : 1400kg

Overall size : 1500x900x1500mm(LxWxH)

DHC/DRY 450

Production capacity : 8000L/h

Motor power : 11Kw

Net weight : 2000kg

Overall size : 1500x1000x1620mm(LxWxH)

DHC/DRY 500

Production capacity : 10000L/h

Motor power : 22Kw

Net weight : 2200kg

Overall size : 1200x1100x1780mm(LxWxH)