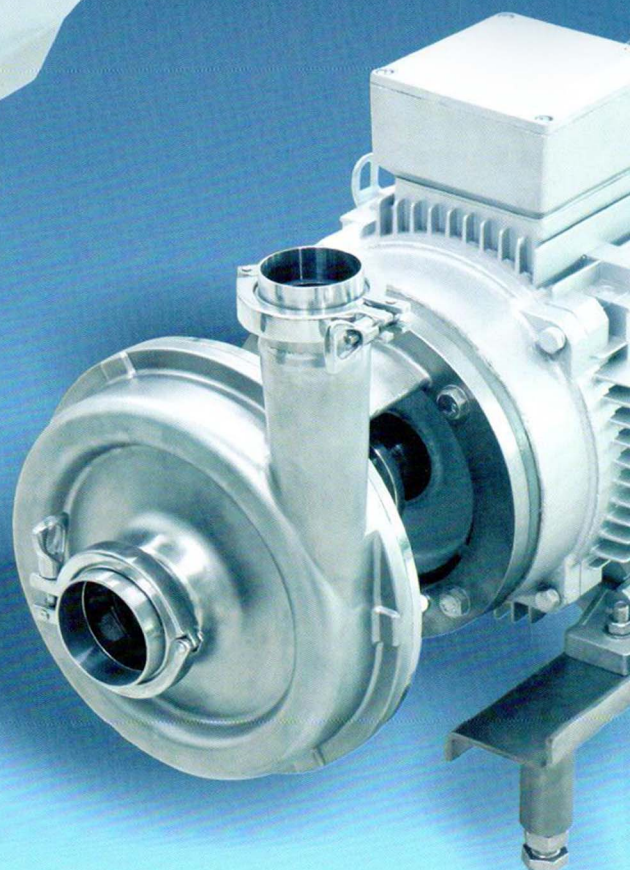


SCP series

Sanitary centrifugal pump

卫生型离心泵



标准设计

SCP系列卫生型离心泵由电动机、泵轴、机械压紧夹套、卫生机械密封、连接支架、后板、叶轮、泵壳组成。SCP系列卫生型离心泵具有大的内圆倒角和可清洁式密封件，是专为CIP而设计的SCP系列卫生型离心泵，具有用于保护电动机的不锈钢护罩，并且整个装置由四个可调整的支脚支撑。

Standard design

The SCP series sanitary centrifugal pump is composed of motor, pump shaft, mechanical clamping jacket, sanitary mechanical seal, connection support, rear plate, impeller, pump shell, etc. The SCP series sanitary centrifugal pump has large internal round chamfer and cleaning type seal. The SCP series sanitary centrifugal pump specially designed for CIP has the stainless steel protection cover used for protecting the motor, and the equipment is supported by four adjustable feet.

技术参数

最大入口压力: 0.5MPa
温度范围: $-10^{\circ}\text{C}+140^{\circ}\text{C}$ (EPDM)
噪音水平(1米处): 60-85dB(A)

可冲洗密封
水压: 最高0.1MPa
水量: 0.25-0.5L/min

双端面密封
水压: 最高0.1MPa
水量: 0.25-0.5L/min

Technical parameters

Maximum inlet pressure: 0.5MPa
Temperature range: $-10^{\circ}\text{C}+140^{\circ}\text{C}$ (EPDM)
Noise level (at 1m): 60-85dB(A)

Washable seal
Hydraulic pressure: maximum 0.1MPa
Water volume: 0.25-0.5L/min

Double end seal
Hydraulic pressure: maximum 0.1MPa
Water volume: 0.25-0.5L/min

轴封

SCP系列卫生离心泵配备有一套外置式单端面机械密封或注水机械密封。机械密封的静环由不锈钢和碳化硅或钨合金材料制成，动环由不锈钢碳石墨或钨合金制成。采用注水式密封的密封圈是经久耐用的唇封。该系列泵产品还可以配备双端面机械密封。

Shaft seal

The SCP series sanitary centrifugal pump is provided with a set of externally mounted single end mechanical seal or water injection mechanical seal. The static ring of the mechanical seal is made of stainless steel, silicon carbide or tungsten alloy. The dynamic ring is made of stainless steel, carbon, graphite or tungsten alloy. The seal ring of the water injection type seal is a durable lip seal. The series of pump products can also be equipped with the double end mechanical seal.

材料

过液体部件材质: AISI 316L、AISI 316或者 AISI 304不锈钢
其它部件材质: AISI 304 不锈钢
外表面: 钛色
内表面: 镜面抛光 0.4 或钛色
过液体橡胶密封材料: EPDM 三乙丙胶
Q 硅胶
FRM 氟胶
NBR 丁腈胶

Materials

Materials of liquid passing parts: AISI316L, AISI316 or AISI304 stainless steel
Materials of other parts: AISI304 stainless steel
Outer surface: titanium
Inner surface: mirror polishing 0.4 or titanium
Liquid passing rubber seal material: EPDM
Q
FRM
NBR

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump

Continuously upgrading thinking mode and innovation consciousness, realizing set objectives of the enterprise through wisdom

将思维方式和创新意识不断升华，用智慧使企业既定目标得以实现



应用

SCP系列卫生型离心泵是一种高效能而又具有经济性的离心泵，它既可以满足卫生及对产品进行柔和处理的要求，又具有化学稳定性。SCP系列卫生离心泵可广泛适用于各类液体物料的输送，如乳品、啤酒、饮料、医药、生物工程、精细化工等领域。它不但可以输送普通的低、中粘度溶液，也可以输送含悬浮物或有腐蚀性的溶液。

GOBOR卫生型离心泵的形式为单级、单吸、开式叶轮。泵壳、叶轮经精心设计、减小了阻力、彻底消灭了卫生死角，由于其特殊的结构，所以提高了泵内液体的流速，从而提高了泵的整体性能，且易清洗，具有卓越的卫生性能，它可以满足产品对卫生柔性处理的要求，并具有耐化学腐蚀性能。

Application

The **SCP** series sanitary centrifugal pump is a kind of highly-efficient and economic centrifugal pump. In addition to meeting the requirements for sanitation and soft treatment to products, it also has chemical stability. The **SCP** series sanitary centrifugal pump is widely used for conveying various liquid materials in such fields as dairy, beer, beverage, medicine, biological engineering, fine chemical industry, etc. It can be used to convey ordinary solutions of low and medium viscosity, and solutions containing suspension or corrosive solutions.

The form of the **GOBOR** sanitary centrifugal pump is single stage, single suction and open-type impeller. The pump shell and impeller are elaborately designed to reduce the resistance and thoroughly eliminate the dead corner of sanitation. Thanks to its unique structure, the flow speed of liquid in the pump is enhanced, so that the integral performance of the pump is improved. It is provided with excellent sanitary performance, so it is easy to be cleaned. It can meet the requirements for sanitation and soft treatment to products and has the chemical corrosion resistance.

配用电机

1. 电机按照国际标准设计制造
国际电工委员会 IEC34、IEC72
英国标准 BS4999-5000
澳大利亚标准 ASI 359-2
德国标准 DIN 42673
符合欧共体“CE”标记要求
2. 电机符合下列标准
GB 755-87
GB 10069-88
Q/JBQS 28-2000
3. 优越的电气性能
低噪音、低振动
高性能的防护等级
电机的标准设计防护等级为 IP54、IP55、
可按用户要求，提供更高要求的防护等级。
适用双频率，宽电压使用

Motor

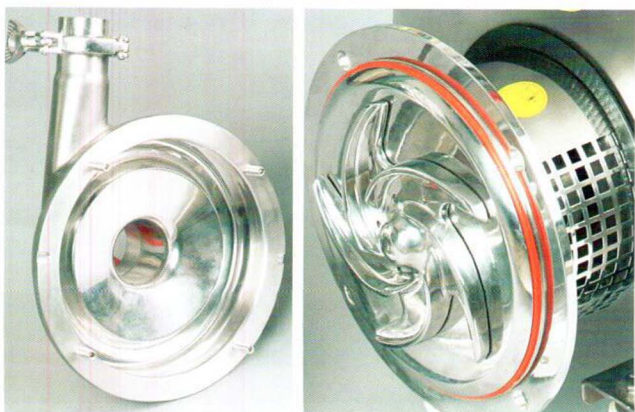
1. The motor is designed and manufactured according to international standards
International Electrotechnical Commission IEC34, IEC72
British Standard BS4999-5000
Australian Standard ASI 359-2
German Standard DIN 42673
Conforming to “CE” mark requirements
2. The motor conforms to the following standards
GB 755-87
GB 10069-88
Q/JBQS 28-2000
3. Excellent electric performances
Low noise, low vibration
Protection grade of high performance
The standard protection grade of the motor is designed as Ip54, IP55
According to user requirements, higher protection grade can be offered.
Suitable for use with double frequency and wide voltage

电压及频率 Voltage and frequency

3~50Hz、220-240V Δ 380-420V $\leq$ 4KW
3~60Hz、250-280V Δ 440-480V $\leq$ 4.6KW
3~50Hz、380-420V Δ 660-690V $\geq$ 5.5KW
3~60Hz、440-480V Δ $\geq$ 6.4KW

电机规格 Motor specification

50Hz: 0.37-0.55-0.75-1.1-1.5-2.2-3-4-5.5-7.5
11-15-18.5-22-30-37KW
60Hz: 0.43-0.63-0.9-1.3-1.75-2.5-3.5-4.6-6.4-8.6
12.5-17-21-25-35-43KW



SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



流体知识

在卫生工艺系统中，泵在持续不断的运转，为液体提供流动的动力，这对泵的性能是具有挑战性的。为降低风险，应精心设计，以便应对复杂问题。

这就是阳光公司倾尽全力使泵的性能和预期用途相匹配的原因。

阳光公司是国内少数专业制造商之一，提供一系列离心泵、卫生泵、自吸泵、循环泵、乳品泵、食品泵、挤奶泵和板式换热器。但更重要的是，我们是泵行业专业制造商，拥有丰富的专业知识，包括泵的工程技术，泵的密封技术和泵的创新技术。

我们的产品组合确保了最高的卫生标准、无故障运转和低保养要求。

Fluid knowledge

In sanitary technological system, the pump is running continuously and providing flowing power for liquid. This challenges the performances of the pump. To reduce risk, the pump shall be elaborately designed so as to solve complex problems.

This is the reason why GOBOR Company is doing its best to make the performances match the intended usage.

GOBOR Company is one of the few professional manufacturers in China that provide centrifugal pumps, sanitary pumps, self-priming pumps, circulating pumps, dairy pumps, food pumps, milking pumps, plate type heat exchangers and etc. But more importantly, we are the professional manufacturer in pump industry, and we have rich professional knowledge, including pump engineering technologies, pump sealing technologies and pump innovative technologies.

Our product combination ensures the highest sanitary standard, the requirements for no-fault operation and low maintenance.

特点

GOBOR泵的卓越源于许多因素。我们泵的高性能和节能性源于其内部的几何特性，确保优秀的流体特性和简单的CIP，结合泵的坚固结构，保障了无故障运转和低保养要求。

另一方面GOBOR泵的每个设计细节都避免缺点。从精确的平衡设计和推进器的安置到泵轴封的外部弹簧(不使用内部弹簧)。

GOBOR泵大部分卫生离心泵使用相同的机械轴封，简化了零部件的安装和库存。GOBOR泵的产品系列都拥有相同的模块化特性，简化了保养，改装和密封转换。

Features

The prominence of **GOBOR** pumps relies on many factors. The high performances and energy-saving performance of our pumps originate from the inside geometrical features, so that the excellent fluid features and simple CIP are ensured, and the requirements for no-fault operation and low maintenance are guaranteed with the solid pump structure. In addition, the **GOBOR** pump avoids disadvantages in all design details, such as the precise balancing design, installation of the booster, and outside spring of the shaft seal (without using the inside spring). Among the **GOBOR** pumps, most sanitary centrifugal pumps use the same mechanical seal, which simplifies installation and warehousing of spare parts. The **GOBOR** pump products have the same modular features, which simplifies maintenance, modification and seal change.

卫生离心泵型号说明

Model explanation of sanitary centrifugal pump

示例：(Example)

SCP EX 20 A 170 4 AB

泵出口接头形式
Pump outlet joint form

泵进口接头形式
Pump inlet joint form

电动机功率 Motor power: KW

叶轮直径 Impeller diameter

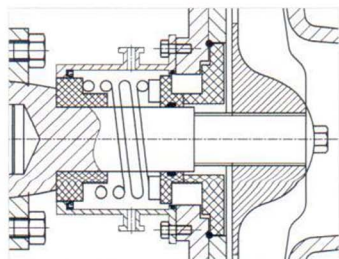
密封形式 Seal form: 缺省: 单端面机械密封
Default: single end mechanical seal
A: 带水冲洗单端面机械密封
With washable single end mechanical seal
B: 双端面机械密封
Double end mechanical seal

机座号 Frame No.: 3, 5, 10, 15, 20, 30, 40

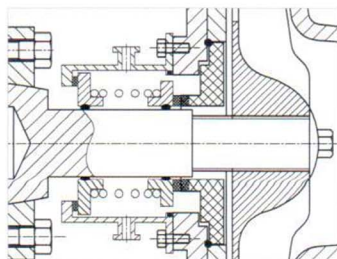
防爆电机 Explosion-proof motor

卫生离心泵 Sanitary centrifugal pump

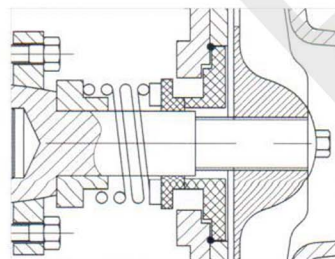
A: ISO卡箍接头 ISO ferrule joint
B: ISO 螺纹活接头 ISO threaded union
C: SMS 螺纹活接头 SMS threaded union
D: DIN 螺纹活接头 DIN threaded union
E: 法兰连接 Flange connection



A 带水冲洗机械密封
With washable mechanical seal

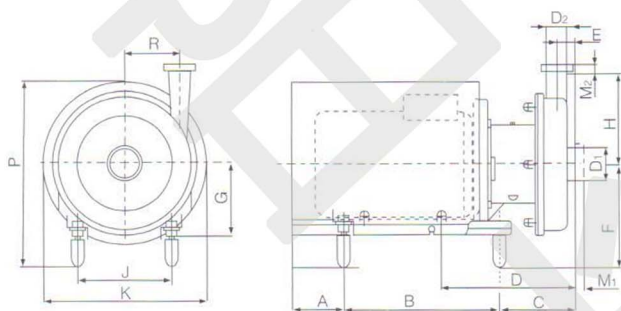


B 水冷双端面机械密封
Water cooling double end mechanical seal



单端面机械密封
Single end mechanical seal

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



性能曲线 Performance Curve

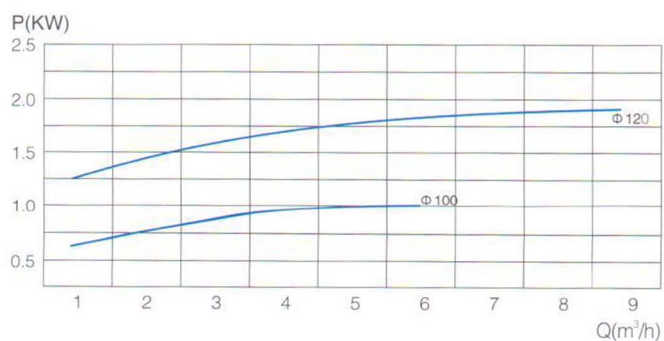
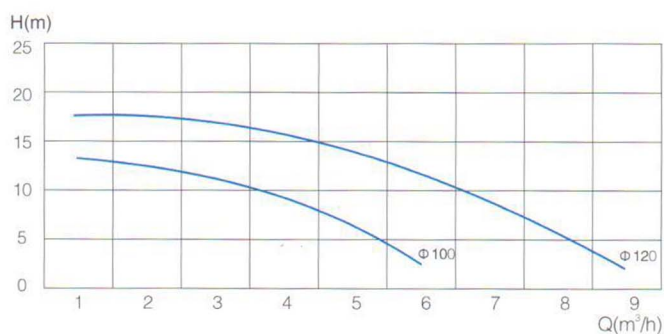
介质: 20℃清水
误差: $\pm 5\%$
Medium: 20°C clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

叶轮直径: 最大 $\Phi 120\text{mm}$
最小 $\Phi 100\text{mm}$
Impeller diameter: maximum $\Phi 120\text{mm}$
minimum $\Phi 100\text{mm}$

进口直径: $\Phi 32\text{mm}$
出口直径: $\Phi 32\text{mm}$
Inlet Diameter: $\Phi 32\text{mm}$
Outlet Diameter: $\Phi 32\text{mm}$

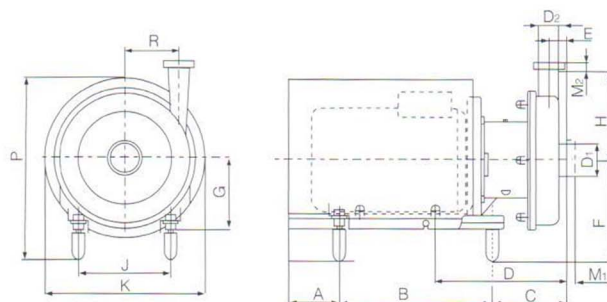
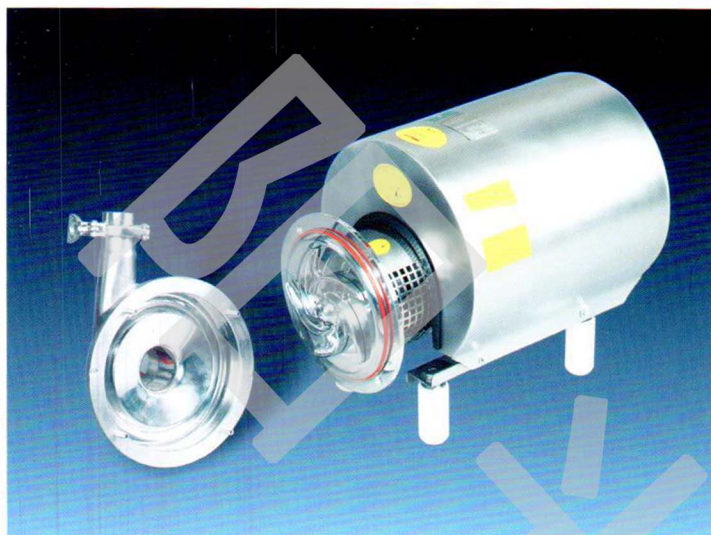
SCP-3 技术参数说明 Explanation of technical parameters



Size	Techtop 电机		
	0.37KW	0.55KW	0.75KW
A	73	73	85
B	185	185	210
C	91	91	115
D	140	140	179
E	22	22	22
F max	170	170	200
F min	140	140	170
G	74	74	98
H	81	81	108
J	132	132	155
K	220	220	260
P max	303	303	352
P min	273	273	322
R	43	43	52
重量(kg) max	17.5	18	26
重量(kg) min	11.5	12	18

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	23	20
M2	21.5	21.5	23	20
D1	32	32	DN32	32
D2	25.4	25.4	DN25	25.4

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



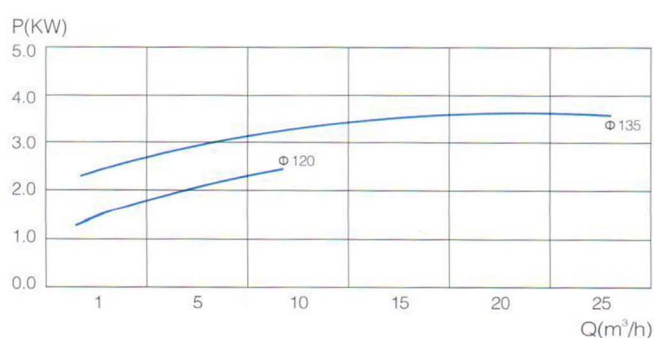
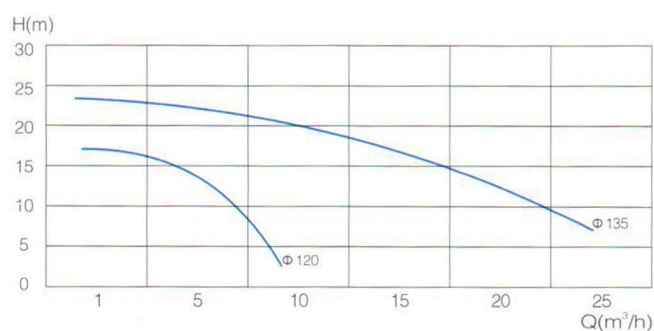
性能曲线 Performance Curve

介质: 20°C清水
误差: $\pm 5\%$
Medium: 20°C clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

叶轮直径: 最大 $\Phi 135\text{mm}$
最小 $\Phi 120\text{mm}$
Impeller diameter: maximum $\Phi 135\text{mm}$
minimum $\Phi 120\text{mm}$

进口直径: $\Phi 38.1\text{mm}$
出口直径: $\Phi 32\text{mm}$
Inlet Diameter: $\Phi 38.1\text{mm}$
Outlet Diameter: $\Phi 32\text{mm}$

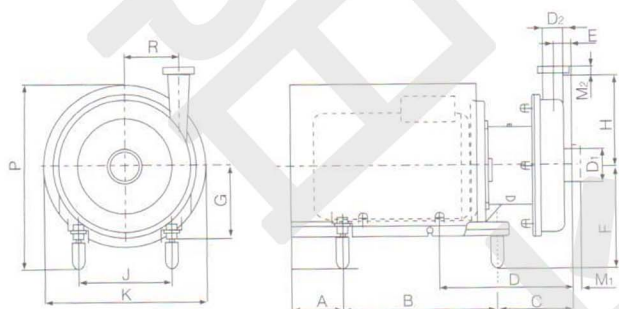


SCP-5 技术参数说明 Explanation of technical parameters

Size	Techtop 电机		
	0.75KW	1.1KW	1.5KW
A	85	85	72
B	210	210	240
C	115	115	127
D	179	179	199
E	22	22	28
F max	200	200	211
F min	170	170	181
G	98	98	108
H	108	108	129
J	155	155	160
K	260	260	275
P max	352	352	372
P min	322	322	342
R	52	52	59
重量(kg) max	26	28	36
重量(kg) min	18	19	26

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	23	20
M2	21.5	21.5	22	20
D1	38.1	38.1	DN40	38.1
D2	32	32	DN32	32

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



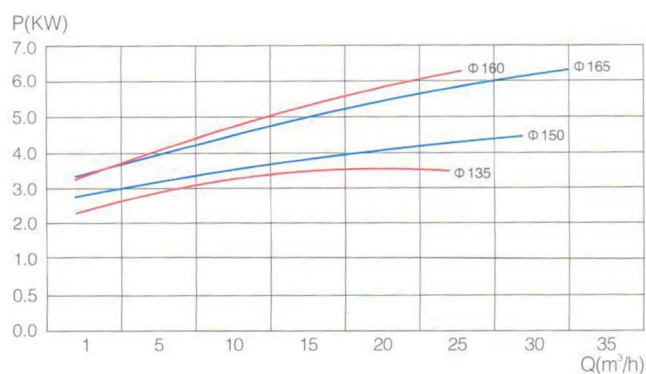
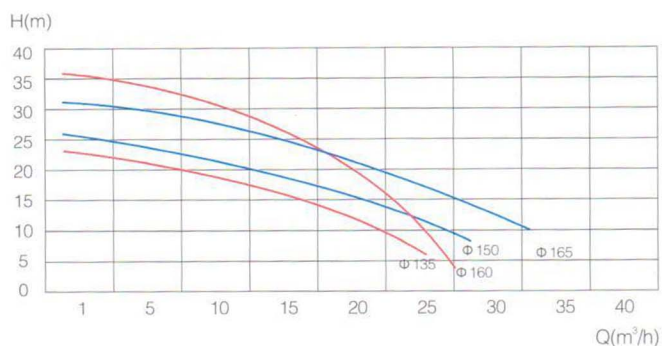
性能曲线 Performance Curve

介质: 20℃清水
误差: $\pm 5\%$
Medium: 20℃ clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

叶轮直径: 最大 $\Phi 165\text{mm}$
最小 $\Phi 135\text{mm}$
Impeller diameter: maximum $\Phi 165\text{mm}$
minimum $\Phi 135\text{mm}$

进口直径: $\Phi 50.8\text{mm}$
出口直径: $\Phi 38.1\text{mm}$
Inlet Diameter: $\Phi 50.8\text{mm}$
Outlet Diameter: $\Phi 38.1\text{mm}$

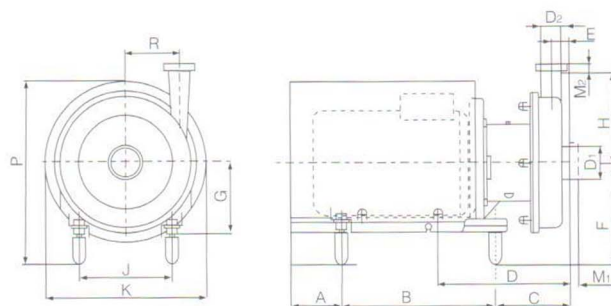
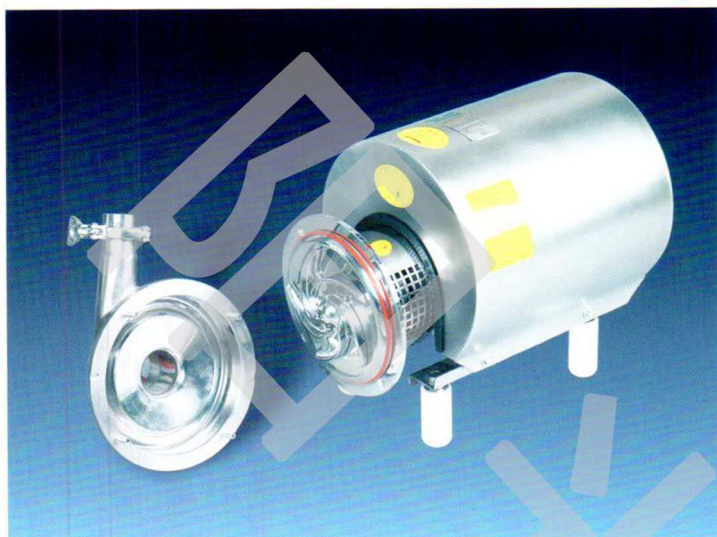


SCP-10 技术参数说明 Explanation of technical parameters

Size	Techtop 电机		
	1.5KW	2.2KW	3KW
A	72	92	110
B	240	240	280
C	127	131	147
D	199	202	224
E	28	26	31
F max	211	211	223
F min	181	181	193
G	108	108	120
H	129	140	158
J	160	160	205
K	275	275	345
P max	372	372	434
P min	342	342	404
R	59	70	88
重量(kg) max	36	39	57
重量(kg) min	26	30	41

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	24	20
M2	21.5	21.5	23	20
D1	50.8	50.8	DN50	50.8
D2	38.1	38.1	DN40	38.1

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



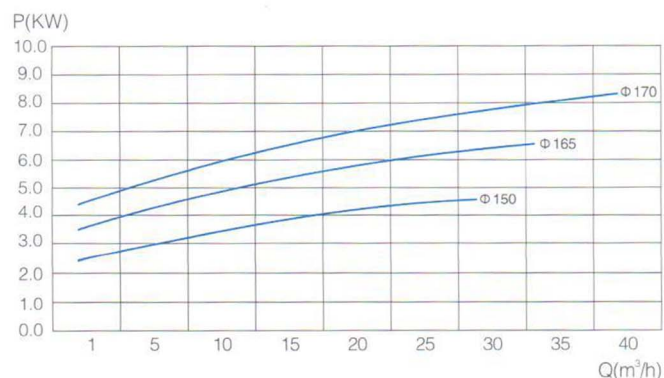
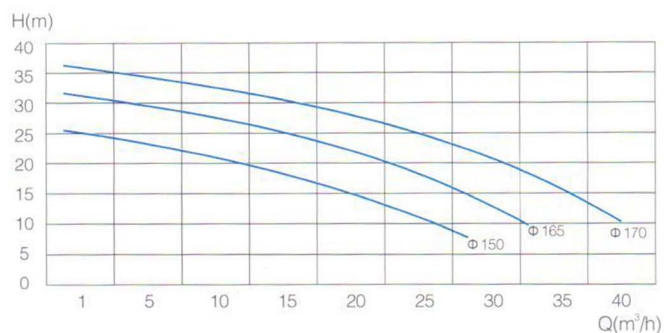
性能曲线 Performance Curve

介质: 20℃清水
误差: $\pm 5\%$
Medium: 20℃ clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

叶轮直径: 最大 $\Phi 170\text{mm}$
最小 $\Phi 150\text{mm}$
Impeller diameter: maximum $\Phi 170\text{mm}$
minimum $\Phi 150\text{mm}$

进口直径: $\Phi 50.8\text{mm}$
出口直径: $\Phi 38.1\text{mm}$
Inlet Diameter: $\Phi 50.8\text{mm}$
Outlet Diameter: $\Phi 38.1\text{mm}$

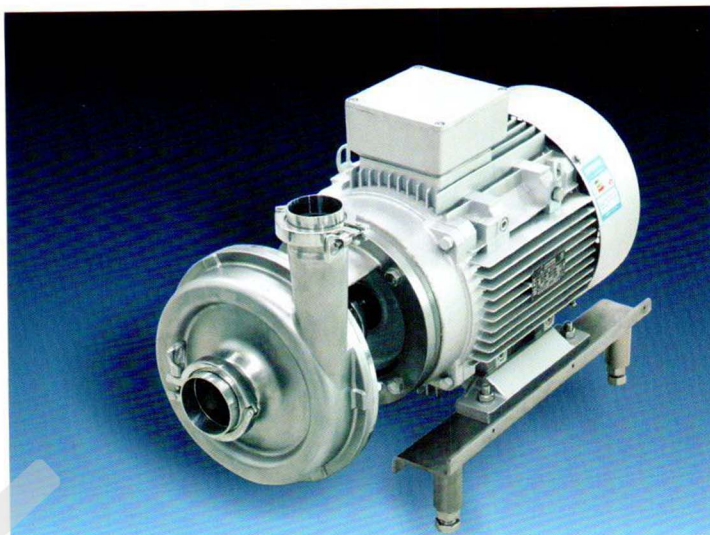
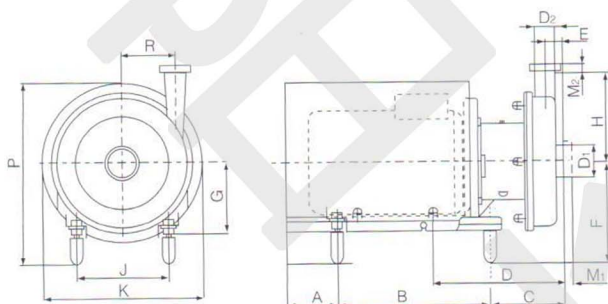


SCP-15 技术参数说明 Explanation of technical parameters

Size	Techtop 电机		
	2.2KW	3KW	4KW
A	92	110	110
B	240	280	280
C	131	147	152
D	202	224	232
E	26	31	31
F max	211	223	235
F min	181	193	205
G	108	120	132
H	140	158	158
J	160	205	205
K	275	345	345
P max	372	434	434
P min	342	404	404
R	70	88	88
重量(kg) max	39	57	67
重量(kg) min	30	41	46

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	24	20
M2	21.5	21.5	23	20
D1	50.8	50.8	DN50	50.8
D2	38.1	38.1	DN40	38.1

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



性能曲线 Performance Curve

介质: 20°C清水
误差: $\pm 5\%$
Medium: 20°C clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

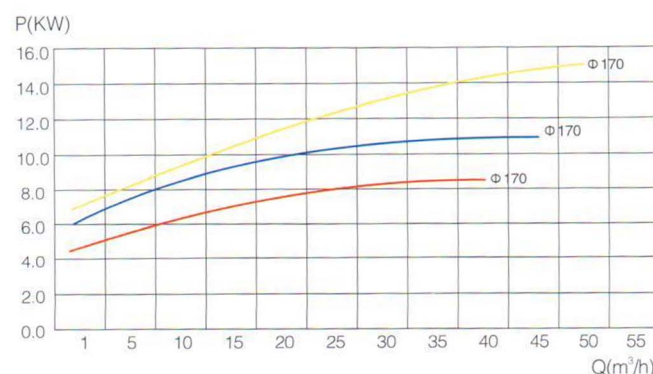
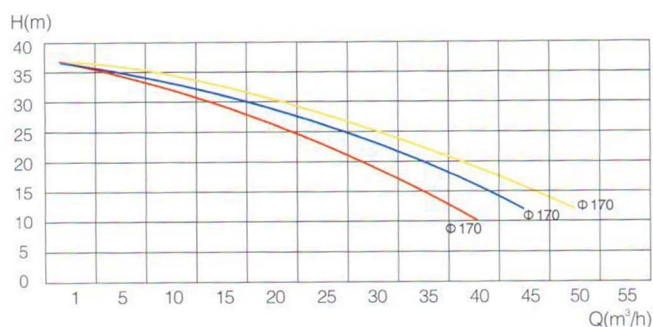
叶轮直径: 最大 $\Phi 170\text{mm}$
最小 $\Phi 170\text{mm}$
Impeller diameter: maximum $\Phi 170\text{mm}$
minimum $\Phi 170\text{mm}$

进口直径: $\Phi 51\text{mm}$
出口直径: $\Phi 51\text{mm}$
Inlet Diameter: $\Phi 51\text{mm}$
Outlet Diameter: $\Phi 51\text{mm}$

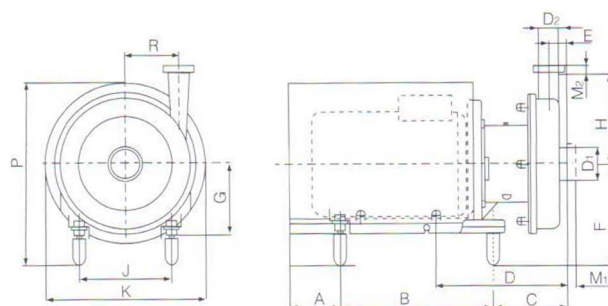
SCP-20 技术参数说明 Explanation of technical parameters

Size	Techtop 电机		
	4KW	5.5KW	7.5KW
A	110	115	115
B	280	380	380
C	152	160	160
D	232	270	270
E	31	31	31
F max	235	257	257
F min	205	227	227
G	132	152	152
H	158	158	158
J	205	255	255
K	345	390	390
P max	434	468	468
P min	404	438	438
R	88	88	88
重量(kg) max	67	81	90
重量(kg) min	46	58	64

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	26	24
M2	21.5	21.5	24	20
D1	63.5	63.5	DN65	63.5
D2	50.8	50.8	DN50	50.8



SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



性能曲线 Performance Curve

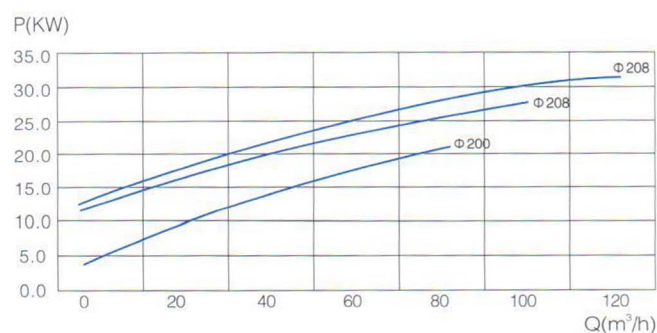
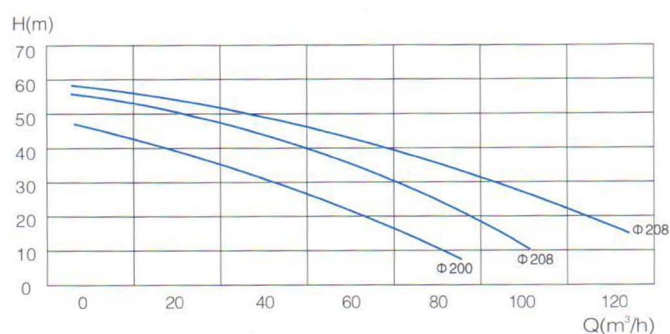
介质: 20℃清水
误差: $\pm 5\%$
Medium: 20℃ clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

叶轮直径: 最大 $\Phi 208\text{mm}$
最小 $\Phi 200\text{mm}$
Impeller diameter: maximum $\Phi 208\text{mm}$
minimum $\Phi 200\text{mm}$

进口直径: $\Phi 76\text{mm}$
出口直径: $\Phi 63\text{mm}$
Inlet Diameter: $\Phi 76\text{mm}$
Outlet Diameter: $\Phi 63\text{mm}$

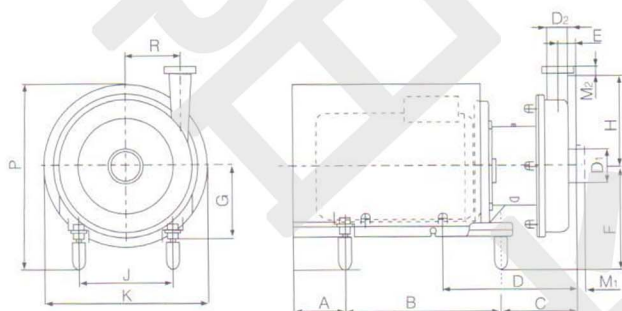
SCP-30 技术参数说明 Explanation of technical parameters



Size	Techtop 电机		
	11KW	15KW	18.5KW
A	115	120	160
B	445	445	445
C	240	240	240
D	355	355	355
E	40	40	40
F max	295	295	295
F min	265	265	265
G	166	166	166
H	203	203	203
J	275	275	275
K	470	470	470
P max	560	560	560
P min	530	530	530
R	105	105	105
重量(kg) max	166	175	190
重量(kg) min	124	133	150

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	26	24
M2	21.5	21.5	26	21.5
D1	76.1	76.1	DN80	76.1
D2	63.5	63.5	DN65	63.5

SCP系列卫生型离心泵 SCP series sanitary centrifugal pump



性能曲线 Performance Curve

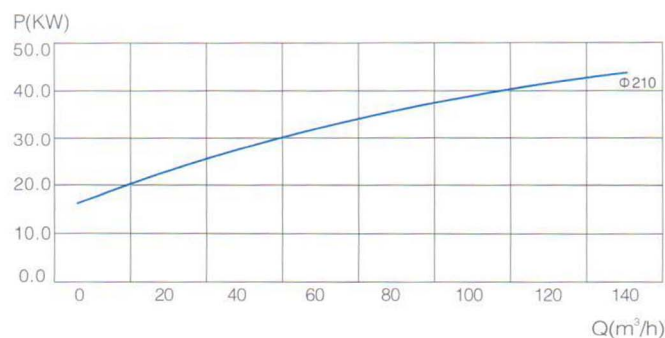
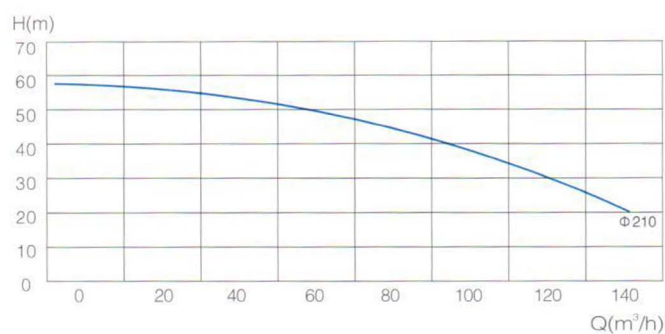
介质: 20℃清水
误差: $\pm 5\%$
Medium: 20℃ clean water
Error: $\pm 5\%$

转速: 2900RPM
频率: 50Hz
Rotating Speed: 2900RPM
Frequency: 50Hz

叶轮直径: 最大 $\Phi 250\text{mm}$
最小 $\Phi 210\text{mm}$
Impeller diameter: maximum $\Phi 250\text{mm}$
minimum $\Phi 210\text{mm}$

进口直径: $\Phi 89\text{mm}$
出口直径: $\Phi 76\text{mm}$
Inlet Diameter: $\Phi 89\text{mm}$
Outlet Diameter: $\Phi 76\text{mm}$

SCP-40 技术参数说明 Explanation of technical parameters



Size	Techtop 电机		
	22KW	30KW	37KW
A	120	180	180
B	525	575	575
C	263	263	263
D	395	407	407
E	32	32	32
F max	331	351	351
F min	301	321	321
G	186	186	186
H	260	260	260
J	305	370	370
K	520	596	596
P max	600	675	675
P min	570	645	645
R	114	114	114
重量(kg)	238	290	302

Size	ISO卡箍	ISO活接头	DIN活接头	SMS活接头
M1	21.5	21.5	28	21.5
M2	21.5	21.5	26	21.5
D1	88.9	88.9	DN80	88.9
D2	76.1	76.1	DN65	76.1

