



川源(中国)机械有限公司
GSD (China) Co.,Ltd.



RSW/TRS

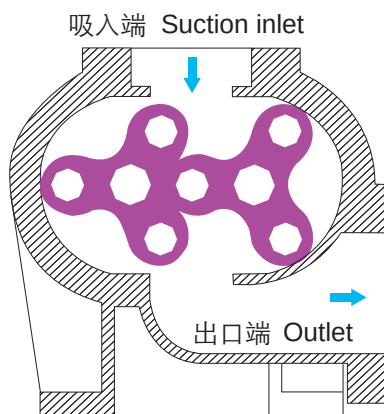
增压罗茨风机

RSW/TRS pressure boost roots blower



RSW / TRS 增压罗茨风机

RSW/TRS pressure boost roots blower



原理 Theory

RSW/TRS增压罗茨风机是一种容积式风机，其压力是可根据用户的要求在允许的范围內加以调节，在机壳内部设置有两种互相相反方向回轉的叶轮，在叶轮与叶轮，及叶轮与壳体間仅有微小縫隙的状态下回轉。当叶轮经过吸入端时，与壳体之間捕捉一定量的空气，随叶轮旋轉，空气侧移，压力逐渐升高再送至出口端。TRS增压风机是二段式鼓风机，由两台RSW风机组成。当一段RSW风机叶轮经过入口端时，与壳体之間捕捉一定量的空气，随叶轮旋轉，空气侧移，压力逐渐升高再送至出口端，完成一次增压进入冷凝器降温，再由冷凝器的另一端进入二段RSW风机，由二段风机的入口到出口完成二次增压。

RSW/TRS is a displacement blower, the pressure can be adjusted according to the requirement of the user in allowing range, there are two impellers in the blower body which rotate in the opposite direction, in order to let the impeller rotate, there are some tiny gap between the impeller to body, impeller to impeller. When the impeller rotates through the suction inlet, it can gather an amount of air between the body and impeller, then the impeller go on rotating, and the air will be pressured, the pressure in the body will rise, finally the air has been send to the outlet.

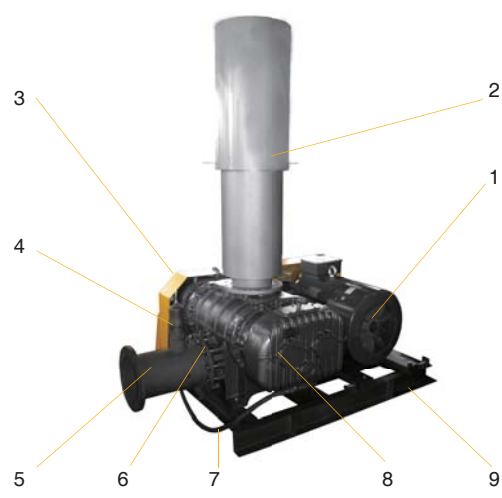
TRS is two-stage pressure boost roots blower, it combine with two sets RSW. When the impeller of the one-stage RSW blower rotates through the suction inlet, it can gather an amount of air between the body and impeller, then the impeller go on rotating, the air will be send to the outlet to finish the first pressurize, after being cooled in the condenser, the air enter the two-stage RSW blower to finish the second pressurize from the suction inlet to outlet.

特点 Features

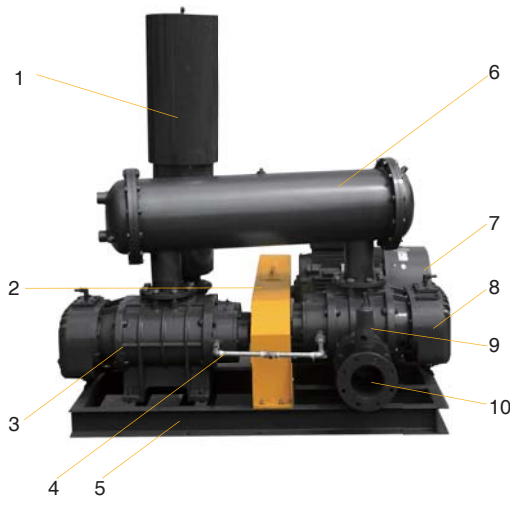
- 风量和压力范围大。
口径：50mm~300mm (2"~12")
风量：RSW 0.36~162.23m³/min；TRS 1.14~166.49m³/min
压力：一段式RSW型可达10000mmAq (1.0kgf/cm²)
二段式TRS型可达20000mmAq (2.0kgf/cm²)
- 排出气体不含油污。
- 电脑动平衡校正，低振动低噪音。
- 风量稳定，压力变换对风机之影响小。
- 特殊叶轮设计，高效率省能源。
- 构造简单坚固，无故障。
- 使用一级研磨齿轮，精度高，寿命长，低噪音。
- 严格品质管理，标准化制品。
- 叶轮采用最新之龙门刨床六轴加工法，一次加工完成，使更换方便，其具有更高之精密度。
- 特有的水冷却设计，可以有效的降低油箱和齿轮箱内的润滑油温度，确保风机高压运行轴承和齿轮的使用寿命。
- TRS两台风机串联运行，通过二次增压，使风机实现高压力。冷凝器的冷却系统，可有效的将第一段风机排出的气体降温，到达第二段入口的温度≤40℃，确保第二段风机正常运行。
- Wide range of capacity and pressure.
Calibre: 50mm-300mm (2"-12")
Capacity: RSW 0.36~162.23m³/min; TRS 1.14~166.49m³/min
Pressure: The pressure of one-stage RSW type up to 10000mmAq (1.0kgf/cm²)
The pressure of two-stage TRS type up to 20000mmAq (2.0kg/cm²)
- Delivers completely oil-free air.
- Low oscillation and low noise by dynamic balance which revised by computer.
- Smaller change in capacity against change in pressure.
- High efficiency due to special impeller design, great air-delivery low power.
- Simpler and solid structure, less trouble.
- Highest quality pilot & accurate great applied, long life and low noise assured.
- Standardized product with strict quality control.
- Our rotor has used the most advanced technic, one time for all working process of the six-shaft method, to enhance the precision of leave wheel.
- The special cooling design can efficiently reduce the temperature of the lubricate oil in the oil box and gear case, and then make sure the blower's gear and shaft having a long service life operating under a high pressure.
- TRS is a two-stage blowers in series, through two times pressurize, the air in the blower can get a high pressure. Through the condenser's cooling system, the air discharged from the one-stage blows outlet can be efficiently cooling down, the temperature of the air at the suction inlet of the second stage blower can be below 40℃, which can make sure the regular operation of the second stage blower.



外形结构图 Externality construction



NO.	名称	Name
1	电机	Motor
2	入口消音器	Inlet silencer
3	皮带护罩	Belt cover
4	泄压阀	Pressure release valve
5	三通管	T-joint
6	逆止阀	Check valve
7	冷却水管	Cooling pipe
8	风机本体	blower body
9	底座	Bottom case



NO.	名称	Name
1	入口消音器	Inlet silencer
2	皮带护罩	Belt cover
3	TRS一段风机	TRS one-stage blower
4	冷却水管	Cooling pipe
5	底座	Bottom case
6	冷凝器	Condenser
7	电机	Motor
8	TRS二段风机	TRS two-stage blower
9	泄压阀	Pressure release valve
10	三通管	T-joint

型号说明 Type description

RSW/TRS - 65

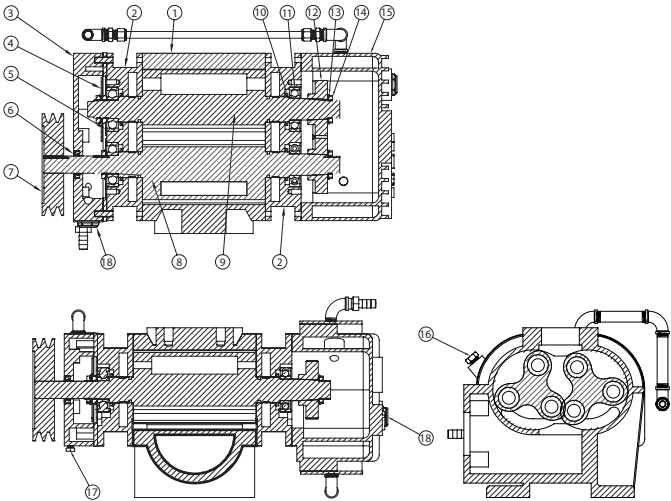
口径 (mm)

Diameter (mm)

RSW/TRS增压罗茨风机 RSW/TRS pressure boost roots blower

结构简图 Construction

NO.	名称	Name	材质 Material	
			GB	JIS
1	风机机体	Casing	HT250	FC250
2	轴承座	Bearing housing	HT250	FC250
3	油箱	Oil box	HT250	FC250
4	甩油片	Oil splash	Q235	SS400
5	轴承固定片	Bearing washer	Q235	SS400
6	骨架油封	Framework oil seal	VITON	VITON
7	皮带轮	Pulley	HT250	FC250
8	主动叶轮	Drive rotor	HT250	FC250
9	被动叶轮	Driven rotor	HT250	FC250
10	V封油封	V-ring	VITON	VITON
11	轴承	Bearing	GCr15	SUJ2
12	齿轮	Gear	20CrMnTi	SCM415
13	止动垫片	Lock washer	Q235	SS400
14	圆螺母	Lock nut	45	S45C
15	齿轮箱	Gear box	HT250	FC250
16	加油柱塞	Lubrication plug	45	S45C
17	泄油柱塞	Purge plug	45	S45C
18	润滑油面计	Oil gauge	Assembly	Assembly



单位换算表 Conversion table

Pressure	atm	kPa	bar	lbt/in ² (psi)	kgf/cm ²	in Hg	ftAq	mmHg(Torr)	mmAq
1 atm	1	101.325	1.01325	14.696	1.0333	29.921	33.914	760	10333
1 kPa	0.0099	1	0.01	0.145	0.0102	0.295	0.335	7.5	102
1 bar	0.9869	100	1	14.504	1.0198	29.53	33.47	750	10198
1 lbt/in ² (psi)	0.068	6.894	0.0689	1	0.0703	2.036	2.308	51.71	703
1 kgf/cm ²	0.968	98.062	0.981	14.228	1	28.96	32.82	735.53	10000
1 inHg	0.0334	3.3863	0.0339	0.491	0.0345	1	1.133	25.4	345.3
1 ftAq	0.0295	2.99	0.0299	0.434	0.0305	0.882	1	22.42	304.8
1 mmHg(Torr)	0.013	0.1338	0.00138	0.019	0.0014	0.04	0.045	1	13.6
1 mmAq	0.00097	0.0098	0.000098	0.0014	0.0001	0.003	0.0033	0.074	1

Capacity	m ³ /min	l/min	cm ³ /s	in ³ /s	ft ³ /min(cfm)
1 m ³ /min	1	1000	16667	1016	35.288
1 l/min	0.001	1	16.67	1.02	0.0353
1 cm ³ /s	0.00006	0.06	1	0.061	0.02
1 in ³ /s	0.00098	0.983	16.39	1	0.035
1 ft ³ /min(cfm)	0.028	28.32	471.95	28.8	1

压力常用换算公式
Pressure Conversion Formula
1 kPa=1000Pa=1000N/m²
1mbar=10.198mmAq
1mmHg(Torr)=133.8Pa



性能参数 Performance parameters

Qs(m³/min) Pressure(mmAq) La(kW)								
型号 Type	转速 RPM	8000mmAq		9000mmAq		10000mmAq		冷却水量 (L/min)
		Qs	La	Qs	La	Qs	La	
RSW-50	1250	1.32	4.61	1.21	5.18	1.14	5.76	4
	1350	1.58	4.98	1.47	5.60	1.40	6.22	
	1450	1.84	5.34	1.73	6.01	1.66	6.68	
	1550	2.10	5.71	1.99	6.43	1.92	7.14	
	1650	2.36	6.08	2.25	6.84	2.18	7.60	
	1750	2.62	6.45	2.51	7.26	2.44	8.06	
	1850	2.87	6.82	2.77	7.67	2.70	8.52	
RSW-65	1950	3.13	7.19	3.03	8.09	2.95	8.98	6
	1250	2.49	5.99	2.36	6.74	2.24	7.49	
	1350	2.82	6.47	2.69	7.28	2.58	8.09	
	1450	3.16	6.95	3.03	7.82	2.92	8.68	
	1550	3.50	7.43	3.37	8.35	3.26	9.28	
	1650	3.83	7.91	3.71	8.89	3.59	9.88	
	RSW-80	1200	3.53	10.21	3.18	11.48	2.84	
1300		4.13	11.06	3.78	12.44	3.44	13.82	
1400		4.73	11.91	4.38	13.39	4.04	14.88	
1500		5.33	12.76	4.98	14.35	4.64	15.95	
1600		5.93	13.61	5.57	15.31	5.24	17.01	
1650		6.23	14.03	5.87	15.79	5.54	17.54	
1750		6.82	14.88	6.47	16.74	6.13	18.60	
1850		7.42	15.73	7.07	17.70	6.73	19.67	
RSW-100	1950	8.02	16.58	7.67	18.66	7.33	20.73	10
	1200	6.69	14.29	6.43	16.07	6.20	17.86	
	1300	7.53	15.48	7.27	17.41	7.04	19.35	
	1400	8.37	16.67	8.11	18.75	7.88	20.84	
RSW-125A	1500	9.21	17.86	8.95	20.09	8.72	22.32	12
	1100	8.17	19.19	7.54	21.59	6.80	23.99	
	1180	9.15	20.59	8.52	23.16	7.78	25.73	
	1250	10.01	21.81	9.38	24.53	8.64	27.26	
	1320	10.87	23.03	10.24	25.91	9.50	28.78	
	1390	11.73	24.25	11.10	27.28	10.36	30.31	
	1470	12.71	25.64	12.08	28.85	11.34	32.06	
	1560	13.82	27.21	13.19	30.62	12.45	34.02	
	1650	14.92	28.78	14.29	32.38	13.56	35.98	
RSW-125	1750	16.15	30.53	15.52	34.35	14.78	38.16	12
	1850	17.38	32.27	16.75	36.31	16.01	40.34	
	1100	12.92	28.05	12.11	31.55	11.17	35.06	
	1180	14.35	30.09	13.55	33.85	12.61	37.61	
	1250	15.61	31.87	14.80	35.86	13.86	39.84	
	1320	16.87	33.66	16.06	37.86	15.12	42.07	
	1390	18.12	35.44	17.32	39.87	16.38	44.30	
	1470	19.56	37.48	18.75	42.17	17.81	46.85	
	1560	21.18	39.78	20.37	44.75	19.43	49.72	
RSW-150	1650	22.79	42.07	21.98	47.33	21.04	52.59	15
	1750	24.59	44.62	23.78	50.20	22.84	55.77	
	1850	26.38	47.17	25.57	53.07	24.64	58.96	
	1100	17.12	36.17	15.76	40.69	14.56	45.21	
	1180	18.97	38.80	17.61	43.65	16.42	48.49	
	1250	20.59	41.10	19.23	46.23	18.04	51.37	
RSW-150	1320	22.21	43.40	20.85	48.82	19.66	54.25	15
	1390	23.83	45.70	22.47	51.41	21.28	57.12	
	1470	25.69	48.33	24.32	54.37	23.13	60.41	



性能参数 Performance parameters

Qs(m³/min) Pressure(mmAq) La(kW)								
型号 Type	转速 RPM	8000mmAq		9000mmAq		10000mmAq		冷却水量 (L/min)
		Qs	La	Qs	La	Qs	La	
RSW200A	990	26.58	52.26	25.43	58.80	24.03	65.33	20
	1050	28.81	55.43	27.66	62.36	26.26	69.29	
	1110	31.04	58.60	29.89	65.92	28.49	73.25	
	1180	33.64	62.29	32.49	70.08	31.09	77.87	
	1250	36.24	65.99	35.09	74.24	33.70	82.48	
	1320	38.84	69.68	37.70	78.39	36.30	87.10	
	1390	41.44	73.38	40.30	82.55	38.90	91.72	
RSW-200	930	31.52	63.12	29.78	71.01	27.98	78.90	25
	990	34.38	67.19	32.65	75.59	30.84	83.99	
	1050	37.25	71.27	35.51	80.18	33.71	89.08	
	1110	40.12	75.34	38.38	84.76	36.58	94.17	
	1180	43.46	80.09	41.73	90.10	39.92	100.11	
	1250	46.81	84.84	45.07	95.45	43.27	106.05	
	1320	50.15	89.59	48.42	100.79	46.61	111.99	
	1390	53.50	94.34	51.76	106.14	49.96	117.93	
RSW-250	930	44.29	84.16	42.71	94.68	40.68	105.20	25
	990	48.11	89.59	46.53	100.79	44.50	111.99	
	1050	51.94	95.02	50.36	106.90	48.32	118.78	
	1110	55.76	100.45	54.18	113.01	52.15	125.57	
	1180	60.22	106.79	58.64	120.14	56.61	133.48	
	1250	64.68	113.12	63.10	127.26	61.07	141.40	
	1320	69.14	119.46	67.56	134.39	65.53	149.32	
	1390	73.60	125.79	72.02	141.52	69.99	157.24	
RSW-300	1480	79.33	133.94	77.76	150.68	75.72	167.42	30
	700	68.65	130.08	66.30	146.34	63.97	162.60	
	800	82.02	148.67	79.67	167.25	77.34	185.83	
	900	95.39	167.25	93.04	188.16	90.70	209.06	
	1000	108.75	185.83	106.41	209.06	104.07	232.29	
	1100	122.12	204.42	119.77	229.97	117.44	255.52	
	1200	135.49	223.00	133.14	250.88	130.81	278.75	
	1300	148.86	241.58	146.51	271.78	144.18	301.98	
	1400	162.23	260.17	159.88	292.69	157.55	325.21	

性能参数 Performance parameters

		Qs(m³/min) Pressure(mmAq) La(kW)																							
型号 Type	转速 RPM	10000mmAq		11000mmAq		12000mmAq		13000mmAq		14000mmAq		15000mmAq		16000mmAq		17000mmAq		18000mmAq		19000mmAq		20000mmAq		冷却水量 (L/min)	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La		
TRS-50	1250	1.61	4.61	1.53	5.07	1.45	5.53	1.41	5.99	1.37	6.45	1.35	6.91	1.32	7.37	1.27	7.83	1.21	8.29	1.18	8.75	1.14	9.21	33	
	1350	1.87	4.98	1.82	5.48	1.77	5.97	1.72	6.47	1.66	6.96	1.62	7.47	1.58	7.97	1.53	8.46	1.47	8.96	1.44	9.45	1.40	9.95		
	1450	2.13	5.34	2.08	5.88	2.03	6.41	1.98	6.95	1.92	7.49	1.88	8.02	1.84	8.55	1.79	9.08	1.73	9.62	1.70	10.15	1.66	10.69		
	1550	2.39	5.71	2.34	6.28	2.29	6.85	2.24	7.43	2.18	8.00	2.14	8.57	2.10	9.14	2.05	9.71	1.99	10.28	1.95	10.85	1.92	11.42		
	1650	2.65	6.08	2.60	6.69	2.55	7.30	2.50	7.91	2.44	8.51	2.40	9.12	2.36	9.73	2.31	10.34	2.25	10.95	2.21	11.55	2.18	12.16		
	1750	2.91	6.45	2.86	7.10	2.81	7.74	2.76	8.39	2.70	9.03	2.66	9.68	2.62	10.32	2.57	10.96	2.51	11.61	2.47	12.25	2.44	12.90		
	1850	3.17	6.82	3.12	7.50	3.07	8.18	3.02	8.87	2.96	9.55	2.92	10.23	2.87	10.91	2.82	11.59	2.77	12.27	2.73	12.95	2.70	13.64		
	1950	3.43	7.19	3.38	7.91	3.32	8.62	3.27	9.34	3.22	10.06	3.18	10.78	3.13	11.50	3.08	12.22	3.03	12.94	2.99	13.65	2.95	14.37		
TRS-65	1250	2.84	6.62	2.78	7.29	2.72	7.95	2.68	8.65	2.63	9.35	2.56	9.98	2.49	10.60	2.42	11.26	2.36	11.92	2.30	12.58	2.24	13.24	40	
	1350	3.18	7.15	3.12	7.87	3.06	8.58	3.02	9.29	2.97	9.99	2.90	10.72	2.82	11.45	2.76	12.16	2.69	12.87	2.64	13.59	2.58	14.30		
	1450	3.52	7.68	3.46	8.45	3.39	9.22	3.35	9.94	3.30	10.65	3.23	11.47	3.16	12.29	3.10	13.06	3.03	13.83	2.97	14.60	2.92	15.36		
	1550	3.85	8.21	3.79	9.03	3.73	9.85	3.69	10.57	3.64	11.29	3.57	12.22	3.50	13.14	3.43	13.96	3.37	14.78	3.31	15.60	3.26	16.42		
	1650	4.19	8.74	4.13	9.62	4.07	10.49	4.03	11.27	3.98	12.05	3.91	13.02	3.83	13.99	3.77	14.86	3.71	15.73	3.65	16.61	3.59	17.48		
TRS-80	1200	4.66	12.76	4.51	14.03	4.36	15.30	4.16	16.58	3.95	17.86	3.74	19.14	3.53	20.42	3.35	21.69	3.18	22.96	3.01	24.24	2.84	25.51	56	
	1300	5.26	13.82	5.11	15.20	4.96	16.58	4.76	17.96	4.55	19.34	4.34	20.73	4.13	22.12	3.95	23.50	3.78	24.88	3.61	26.26	3.44	27.64		
	1400	5.86	14.88	5.71	16.37	5.56	17.86	5.36	19.35	5.15	20.84	4.94	22.33	4.73	23.82	4.55	25.30	4.38	26.79	4.21	28.28	4.04	29.77		
	1500	6.45	15.94	6.31	17.54	6.16	19.14	5.96	20.73	5.75	22.32	5.54	23.92	5.33	25.52	5.15	27.11	4.98	28.70	4.81	30.30	4.64	31.89		
	1600	7.05	17.00	6.91	18.71	6.76	20.42	6.55	22.12	6.34	23.82	6.14	25.52	5.93	27.22	5.75	28.92	5.57	30.62	5.41	32.32	5.24	34.02		
	1650	7.35	17.54	7.21	19.29	7.06	21.04	6.85	22.80	6.64	24.56	6.44	26.31	6.23	28.06	6.05	29.82	5.87	31.57	5.70	33.33	5.54	35.08		
	1750	7.95	18.60	7.81	20.46	7.66	22.32	7.45	24.18	7.24	26.04	7.03	27.90	6.82	29.76	6.65	31.62	6.47	33.49	6.30	35.35	6.13	37.21		
	1850	8.55	19.66	8.41	21.63	8.26	23.60	8.05	25.57	7.84	27.54	7.63	29.50	7.42	31.46	7.25	33.43	7.07	35.40	6.90	37.37	6.73	39.33		
	1950	9.15	20.72	9.00	22.80	8.85	24.88	8.65	26.95	8.44	29.02	8.23	31.09	8.02	33.16	7.84	35.24	7.67	37.31	7.50	39.39	7.33	41.46		
TRS-100	1200	7.31	15.31	7.24	16.84	7.17	18.37	7.00	19.90	6.83	21.43	6.76	22.96	6.69	24.49	6.56	26.02	6.43	27.55	6.32	29.09	6.20	30.62	58	
	1300	8.15	16.58	8.08	18.24	8.01	19.90	7.84	21.56	7.67	23.21	7.60	24.87	7.53	26.53	7.40	28.19	7.27	29.85	7.16	31.51	7.04	33.17		
	1400	8.99	17.86	8.92	19.65	8.84	21.43	8.68	23.22	8.51	25.01	8.44	26.79	8.37	28.57	8.24	30.36	8.11	32.15	7.99	33.93	7.88	35.72		
	1500	9.82	19.13	9.75	21.05	9.68	22.96	9.52	24.88	9.35	26.79	9.28	28.70	9.21	30.62	9.08	32.53	8.95	34.44	8.83	36.36	8.72	38.27		
TRS-125	1100	14.25	29.52	13.94	32.48	13.62	35.43	13.59	38.38	13.56	41.33	13.24	44.28	12.92	47.24	12.51	50.19	12.11	53.14	11.64	56.09	11.17	59.05	74	
	1180	15.69	31.67	15.38	34.84	15.06	38.00	15.03	41.17	15.00	44.34	14.68	47.51	14.35	50.67	13.95	53.84	13.55	57.01	13.08	60.17	12.61	63.34		
	1250	16.94	33.55	16.63	36.90	16.31	40.25	16.28	43.61	16.25	46.97	15.93	50.32	15.61	53.68	15.21	57.03	14.80	60.39	14.33	63.74	13.86	67.10		
	1320	18.20	35.43	17.89	38.97	17.57	42.51	17.54	46.06	17.51	49.60	17.19	53.14	16.87	56.68	16.46	60.23	16.06	63.77	15.59	67.31	15.12	70.85		
	1390	19.46	37.31	19.15	41.04	18.83	44.77	18.80	48.50	18.77	52.23	18.45	55.96	18.12	59.69	17.72	63.42	17.32	67.15	16.85	70.88	16.38	74.61		
	1470	20.89	39.46	20.58	43.40	20.26	47.34	20.23	50.93	20.20	54.52	19.88	58.82	19.56	63.13	19.16	67.07	18.75	71.02	18.28	74.96	17.81	78.91		
	1560	22.51	41.87	22.20	46.06	21.88	50.24	21.85	54.43	21.82	58.61	21.50	62.80	21.18	66.99	20.77	71.18	20.37	75.36	19.90	79.55	19.43	83.74		
	1650	24.12	44.28	23.81	48.71	23.50	53.14	23.47	57.57	23.43	62.00	23.11	66.43	22.79	70.85	22.39	75.28	21.98	79.71	21.51	84.14	21.04	88.57		
	1750	25.92	46.97	25.61	51.67	25.29	56.36	25.26	61.06	25.23	65.75	24.91	70.45	24.59	75.15	24.18	79.85	23.78	84.54	23.31	89.24	22.84	93.94		
	1850	27.71	49.65	27.40	54.62	27.09	59.59	27.06	64.55	27.02	69.51	26.70	74.48	26.38	79.44	25.98	84.41	25.57	89.37	25.10	94.34	24.64	99.30		
TRS-150	1100	18.91	40.13	18.56	44.15	18.20	48.16	17.90	52.17	17.60	56.18	17.36	60.20	17.12	64.21	16.44	64.21	15.76	64.21	15.16	72.24	14.56	80.27	87	
	1180	20.77	43.05	20.41	47.36	20.05	51.66	19.75	55.97	19.45	60.28	19.21	64.58	18.97	68.88	18.29	68.88	17.61	68.88	17.01	77.49	16.42	86.10		
	1250	22.39	45.61	22.03	50.17	21.67	54.72	21.37	59.29	21.07	63.85	20.83	68.41	20.59	72.97	19.91	72.97	19.23	72.97	18.63	82.09	18.04	91.21		
	1320	24.01	48.16	23.65	52.98	23.29	57.79	22.99	62.61	22.69	67.42	22.45	72.24	22.21	77.05	21.53	77.05	20.85	77.05	20.25	86.69	19.66	96.32		
	1390	25.63	50.71	25.27	55.78	24.91	60.85	24.61	65.93	24.31	71.00	24.07	76.07	23.83	81.14	23.15	81.14	22.47	81.14	21.87	91.28	21.28	101.43		
	1470	27.48	53.64	27.12	59.00	26.76	64.36	26.47	69.37	26.17	74.37	25.93	80.09	25.69	85.81	25.00	85.81	24.32	85.81	23.73	96.54	23.13	107.26		
	990	28.10	65.33	27.76	71.86	27.41	78.39	27.24	84.93	26.73	91.46	26.37	97.99	26.00	104.52	25.72	111.06	25.43	117.59	24.73	124.12	24.03	130.66		
TRS-200A	1050	30.23	69.29	29.89	76.22	29.55	83.14	29.38	90.07	28.87	97.00	28.56	103.93	28.24	110.86	27.95	117.79	27.66	124.72	26.96	131.65	26.26	138.57	120	
	1110	32.37	73.25	32.03	80.57	31.69	87.90	31.52	95.22	31.01	102.54	30.67	109.87	30.32	117.19	30.11	124.52	29.89	131.84	29.19	139.17	28.49	146.49		
	1180	34.90	77.87	34.51	85.65	34.12	93.44	34.02	101.23	33.53	109.01	33.18	116.80	32.83	124.58	32.66	132.37	32.49	140.16	31.79	147.94	31.09	155.73		
	1250	37.33	82.48	36.99	90.73	36.64	98.98	36.52	107.23	36.06	115.48	35.74	123.73	35.41	131.98	35.25	140.22	35.09	148.47	34.40	156.72	33.70	164.97		
	1320	39.85	87.10	39.51	95.81	39.17	104.50	39.00	113.23	38.49	121.95	38.15	130.66	37.80	139.37	37.75	148.08	37.70	156.79	37.00	165.50	36.30			

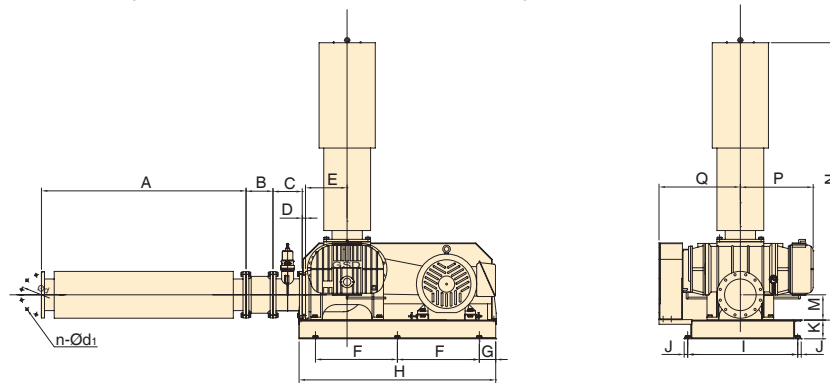
性能参数 Performance parameters

		Qs(m³/min) Pressure(mmAq) La(kW)																								
型号 Type	转速 RPM	1000mmAq		1100mmAq		1200mmAq		1300mmAq		1400mmAq		1500mmAq		1600mmAq		1700mmAq		1800mmAq		1900mmAq		2000mmAq		冷却水量 (L/min)		
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La			
TRS-200	990	36.10	74.66	35.65	82.13	35.20	89.59	34.80	97.06	34.40	104.52	33.70	109.95	33.01	115.38	32.83	124.89	32.65	134.39	31.75	141.85	30.84	149.32	135		
	1050	38.90	79.19	38.45	87.10	38.00	95.02	37.60	102.94	37.20	110.86	36.48	116.74	35.76	122.62	35.64	132.58	35.51	142.53	34.61	150.45	33.71	158.37			
	1110	41.60	83.71	41.15	92.08	40.70	100.45	40.25	108.82	39.80	117.19	39.16	123.53	38.51	129.86	38.45	140.27	38.38	150.68	37.48	159.05	36.58	167.42			
	1180	44.80	88.99	44.35	97.89	43.90	106.79	43.50	115.69	43.10	124.58	42.41	131.11	41.72	137.63	41.73	148.91	41.73	160.18	40.83	169.08	39.92	177.98			
	1250	48.00	94.27	47.55	103.70	47.10	113.12	46.70	122.55	46.30	131.98	45.62	139.03	44.94	146.08	45.00	157.88	45.07	169.68	44.17	179.11	43.27	188.54			
	1320	51.20	99.55	50.75	109.50	50.30	119.46	49.90	129.41	49.50	139.37	48.82	146.95	48.15	154.52	48.28	166.85	48.42	179.18	47.52	189.14	46.61	199.09			
	1390	54.40	104.83	54.00	115.31	53.60	125.79	53.15	136.27	52.70	146.76	52.03	154.86	51.36	162.97	51.56	175.83	51.76	188.69	50.86	199.17	49.96	209.65			
TRS-250	990	49.60	97.99	49.15	107.79	48.70	117.59	48.20	127.39	47.70	137.19	47.18	146.99	46.67	156.79	46.14	166.59	45.60	176.39	45.05	186.18	44.50	195.98	150		
	1050	53.30	103.93	52.80	114.32	52.30	124.72	51.85	135.11	51.40	145.50	50.89	155.90	50.38	166.29	49.86	176.68	49.35	187.08	48.84	197.47	48.32	207.86			
	1110	57.00	109.87	56.50	120.86	56.00	131.84	55.50	142.83	55.00	153.82	54.54	164.80	54.09	175.79	53.59	186.78	53.10	197.77	52.62	208.75	52.15	219.74			
	1180	61.30	116.80	60.80	128.48	60.30	140.16	59.80	151.84	59.30	163.52	58.86	175.20	58.41	186.88	57.94	198.56	57.47	210.24	57.04	221.92	56.61	233.60			
	1250	65.50	123.73	65.00	136.10	64.50	148.47	64.05	160.85	63.60	173.22	63.17	185.59	62.74	197.96	62.29	210.34	61.84	222.71	61.45	235.08	61.07	247.45			
	1320	69.80	130.66	69.30	143.72	68.80	156.79	68.35	169.85	67.90	182.92	67.48	195.98	67.07	209.05	66.64	222.11	66.21	235.18	65.87	248.25	65.53	261.31			
	1390	74.10	137.58	73.60	151.34	73.10	165.10	72.55	178.86	72.00	192.62	71.70	206.38	71.39	220.14	70.99	233.89	70.58	247.65	70.28	261.41	69.99	275.17			
TRS-300	700	73.90	169.83	72.90	184.60	71.90	199.37	71.05	215.98	70.20	232.60	69.42	246.38	68.65	260.17	67.47	276.43	66.30	292.69	65.13	308.95	63.97	325.21	200		
	800	87.30	194.09	86.30	210.97	85.30	227.85	84.45	246.84	83.60	265.82	82.81	281.58	82.02	297.33	80.84	315.92	79.67	334.50	78.50	353.08	77.34	371.67			
	900	100.80	218.35	99.80	237.34	98.80	256.33	97.95	277.69	97.10	299.05	96.24	316.78	95.39	334.50	94.21	355.41	93.04	376.31	91.87	397.22	90.70	418.13			
	1000	114.10	242.62	113.10	263.71	112.10	284.81	111.25	308.54	110.40	332.28	109.58	351.97	108.75	371.67	107.58	394.90	106.41	418.13	105.24	441.36	104.07	464.58			
	1100	127.60	266.88	126.60	290.08	125.60	313.29	124.75	339.40	123.90	365.51	123.01	387.17	122.12	408.83	120.95	434.39	119.77	459.94	118.61	485.49	117.44	511.04			
	1200	141.00	291.14	140.00	316.46	139.00	341.77	138.15	370.25	137.30	398.73	136.40	422.37	135.49	446.00	134.32	473.88	133.14	501.75	131.98	529.63	130.81	557.50			
	1300	154.60	315.40	153.60	342.83	152.60	370.25	151.75	401.11	150.90	431.96	149.88	457.57	148.86	483.17	147.69	513.37	146.51	543.56	145.35	573.76	144.18	603.96			
1400	166.49	339.66	165.42	369.20	164.34	398.73	163.42	431.96	162.51	465.19	162.37	492.76	162.23	520.33	161.05	552.86	159.88	585.38	158.71	617.90	157.55	650.42				



外形尺寸图 Installation dimensions

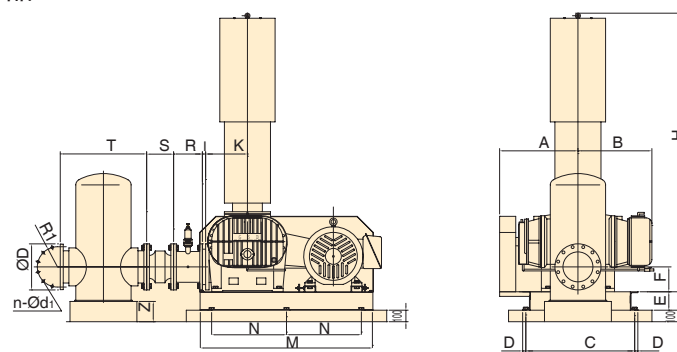
RSW卧式出口消音器 (RSW with horizontal outlet silencer)



单位Unit: (mm)

型号 Type	A	B	C	D	E	F	G	H	I	J	K	M	N	P	Q	Ød	n-Ød1
RSW-50	592	170	150	20	157	-	620	880	410	20	80	103.5	950	305	295	125	4-Ø18
RSW-65	596	180	150	24	152	-	620	880	410	20	80	104	950	335	306	145	4-Ø18
RSW-80	796	200	180	24	180	-	670	1030	510	20	80	106.5	1285	324	400	160	8-Ø18
RSW-100	796	220	180	24	180	-	760	960	560	20	100	106.5	1305	374	442	180	8-Ø18
RSW-125A	1260	230	250	25	250	-	900	1100	556	24	120	134.5	1904	402	440	210	8-Ø18
RSW-125	1260	230	250	25	262	-	900	1100	556	24	120	157.5	1899	462	500	210	8-Ø18
RSW-150	1264	250	250	26	251.5	-	900	1100	556	30	120	163.5	1924	517	536	240	8-Ø22
RSW-200A	1644	290	250	28	360	650	1300	1500	790	30	160	198	2329	520	529	295	8-Ø22
RSW-200	1644	290	250	28	360	650	1300	1500	940	30	160	194	2329	567	570	295	8-Ø22
RSW-250	1748	320	250	28	360	700	1400	1680	940	30	160	216	2564	622	695	350	12-Ø22
RSW-300	1848	330	300	45	560	1000	2000	2470	1030	35	250	300	3129	685	750	400	12-Ø22

RSW立式出口消音器(RSW with vertical outlet silencer)

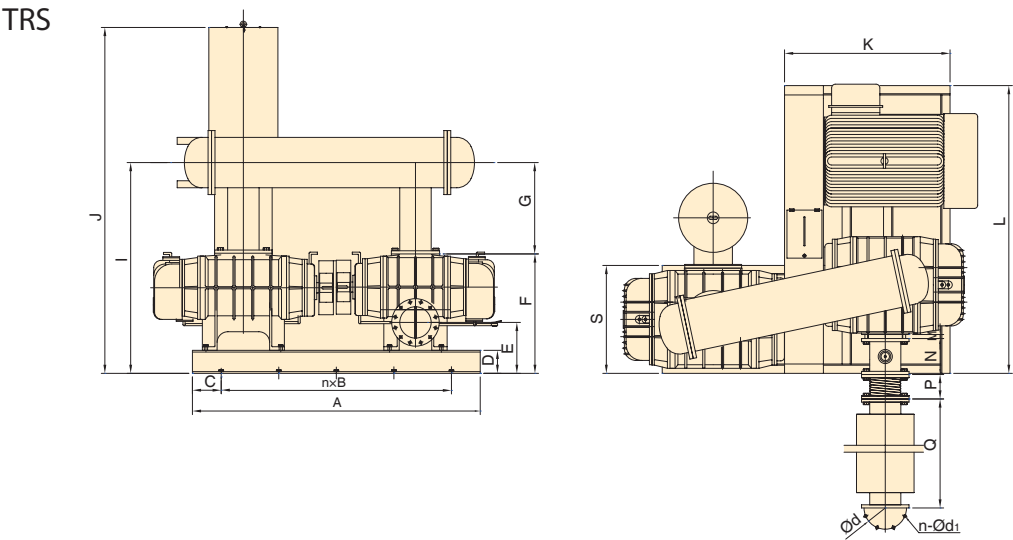


单位Unit: (mm)

型号 Type	A	B	C	D	E	F	H	M	N	K	I	R	S	T	R1	ØD	n-Ød1	T
RSW-50	295	305	410	20	80	104	870	880	-	157	20	150	105	300	62.5	165	4-Ø18	164
RSW-65	306	335	410	20	80	104	870	880	-	152	24	115	115	350	72.5	185	4-Ø18	154
RSW-80	400	324	510	20	80	106.5	1205	1030	-	180	24	180	135	400	80	200	8-Ø18	142
RSW-100	442	374	560	20	100	106.5	1305	960	-	180	24	180	150	450	90	220	8-Ø18	152
RSW-125A	440	402	556	22	120	134.5	1899	1100	-	250	25	250	165	500	105	250	8-Ø18	165
RSW-125	500	462	556	22	120	157.5	1904	1100	-	262	25	250	165	500	105	250	8-Ø18	188
RSW-150	536	517	556	22	120	163.5	1807	1100	-	251.5	26	250	180	600	120	285	8-Ø22	173
RSW-200A	529	487	790	30	160	198	2170	1500	650	360	28	250	190	650	147.5	340	8-Ø22	202
RSW-200	570	567	940	30	160	194	2170	1500	650	360	28	250	190	650	147.5	340	8-Ø22	198
RSW-250	695	622	940	30	160	216	2360	1680	700	360	28	250	230	750	175	395	12-Ø22	176
RSW-300	750	685	1030	35	250	300	2879	2470	1000	560	45	300	250	820	200	455	12-Ø22	300



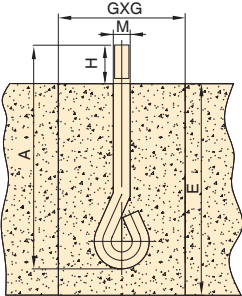
外形尺寸图 Installation dimensions



单位Unit: (mm)

型号 Type	A	nxB	C	D	E	F	G	I	J	K	L	M	N	P	Q	S	Ød	n-Ød ₁
TRS-50	1100	2×430	120	80	184	365	200	565	845	580	880	20	150	160	592	320	110	4-Ø18
TRS-65	1100	2×430	120	80	184	356	240	596	845	600	1000	20	150	170	592	320	125	4-Ø18
TRS-80	1300	3×300	300	120	227	461	240	701	1199	720	1200	24	180	200	796	400	160	8-Ø18
TRS-100	1500	4×250	250	120	227	461	294	752	1199	779	1200	24	180	200	796	400	160	8-Ø18
TRS-125	1600	4×300	200	120	255	550	350	900	1817	1000	1400	25	250	230	1260	600	210	8-Ø18
TRS-150	1700	4×300	200	160	318	585	425	1010	1802	896	1300	25	250	230	1260	600	210	8-Ø18
TRS-200A	2000	4×400	200	200	398	825	600	1425	2254	1130	2000	28	250	290	1644	750	295	8-Ø22
TRS-200	2000	4×400	200	200	398	825	600	1425	2254	1105	2000	28	250	290	1644	750	295	8-Ø22
TRS-250	2000	4×400	200	250	444	910	555	1555	2494	1150	2000	28	250	290	1644	750	295	8-Ø22
TRS-300	2870	5×400	435	250	550	1260	600	1860	2889	1628	2830	45	300	330	1848	1120	400	12-Ø22

地脚螺栓
Anchor bolt

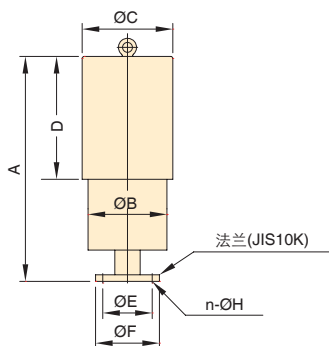


地脚螺栓 M Anchor bolt GB799-88	A	H	E	G×G	适用型号 Application type
M12	160	36	224	100×100	RSW/TRS-50,65,80
M16	220	45	275	120×120	RSW/TRS-100,125,150; RSW-125A
M20	300	55	345	150×150	RSW/TRS-200A,200,250,300A,300

- 注：1.图注E为最小尺寸，根据安装的土壤情况，应适当加深。
2.G×G为二次浇灌前的预留孔尺寸。
Note:1. The note E on the drawing is the minimum size, it shall be deepened properly according to the soil condition in the installation place.
2. G×G is the size of the preformed holes for the secondary casting.



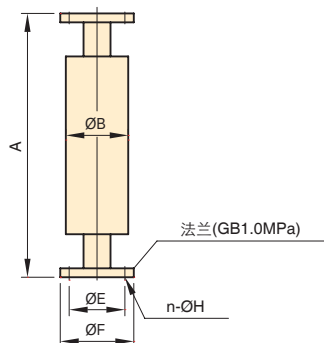
入口消音器 Suction silencer



单位Unit: (mm)

型号 Type	A	ØB*T	ØC	D	ØE	ØF	n-ØH	重量 Weight (kg)	适用型号 Application type
SS50	550	140*2.75	165	80	120	155	4-Ø18	11.0	RSW/TRS-50
SS65	550	165*2.75	200	85	140	175	4-Ø18	14.7	RSW/TRS-65
SS80	820	219*2.75	245	160	150	185	8-Ø18	25.4	RSW/TRS-80
SS100	820	245*3	273	160	175	210	8-Ø18	28.0	RSW/TRS-100
SS125	1310	273*3	315	185	210	250	8-Ø22	42.0	RSW-125A RSW/TRS-125
SS150	1310	299*3	345	190	240	280	8-Ø22	45.3	RSW/TRS-150
SS200	1500	400*3	500	230	290	330	12-Ø22	67.8	RSW/TRS-200(A)
SS250	1700	400*3	500	230	355	400	12-Ø22	81.2	RSW/TRS-250
SS300	1825	500*3	650	350	400	445	16-Ø22	108	RSW/TRS-300

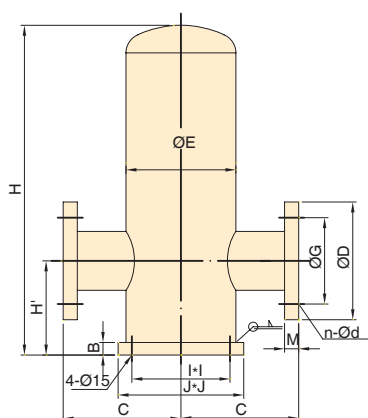
出口消音器 Outlet silencer



单位Unit: (mm)

型号 Type	A	ØB*t	ØE	ØF	n-ØH	重量 Weight (kg)	适用型号 Application type
DS50	592	140*2.75	125	165	4-Ø18	13.0	RSW/TRS-50
DS65	596	165*2.75	145	185	4-Ø18	16.8	RSW/TRS-65
DS80	796	219*3	160	200	8-Ø18	28.3	RSW/TRS-80
DS100	796	245*3	180	220	8-Ø18	33.3	RSW/TRS-100
DS125	1260	299*3	210	250	8-Ø18	45.1	RSW-125A RSW/TRS-125
DS150	1264	299*3	240	285	8-Ø22	49.1	RSW/TRS-150
DS200	1644	400*3	295	340	8-Ø22	84.0	RSW/TRS-200(A)
DS250	1748	400*3	350	395	12-Ø22	97.0	RSW/TRS-250
DS300	1848	500*	400	445	12-Ø22	135	RSW/TRS-300

立式出口消音器 Vertical outlet silencer

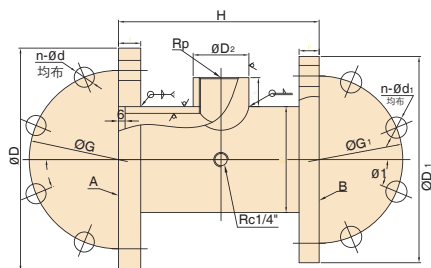


单位Unit: (mm)

H	H'	ØD	ØG	n-Ød	M	C	B	ØE	IxI	JxJ	适用型号 Application type
420	120	165	125	4-Ø18	20	150	6	140	125	160	RSW-50
480	130	185	145	4-Ø18	20	175	6	191	170	210	RSW-65
595	145	200	160	8-Ø18	20	200	6	216	190	235	RSW-80
660	155	220	180	8-Ø18	22	225	8	267	230	280	RSW-100
800	190	250	210	8-Ø18	22	250	8	280	240	300	RSW-125(A)
920	210	285	240	8-Ø22	24	300	10	356	290	376	RSW-150
1050	256	340	295	8-Ø22	24	325	12	406	350	425	RSW-200(A)
1200	300	395	350	12-Ø22	26	375	12	480	400	500	RSW-250
1300	350	445	400	12-Ø22	26	410	12	520	450	550	RSW-300



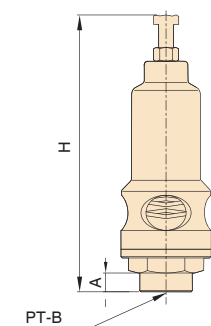
三通管 "T" -joint



单位Unit: (mm)

公称通径 Type	H	ØD	ØG	Ø ⁰	n-Ød	t	ØD1	ØG1	ØI	n-Ød1	t1	D2 (外径×壁厚)	h	Rp	D3 (外径×壁厚)	适用型号 Application type
40	150	150	110	45	4-Ø18	18	155	120	45	4-Ø18	16	50X6.5	26	1 1/4"	63X6	TRS-50
50	150	165	125	45	4-Ø18	20	155	120	45	4-Ø18	16	50X6.5	26	1 1/4"	63X6	RSW-50 TRS-65
65	150	185	145	45	4-Ø18	20	175	140	45	4-Ø18	18	50X6.5	26	1 1/4"	83X6	RSW-65
80	180	200	160	22.5	8-Ø18	20	185	150	22.5	8-Ø18	18	50X6.5	26	1 1/4"	95X6	RSW-80 TRS-80~100
100	180	220	180	22.5	8-Ø18	22	210	175	22.5	8-Ø18	18	70X8	30	2"	114X6	RSW-100
125	250	250	210	22.5	8-Ø18	22	250	210	22.5	8-Ø22	20	70X8	30	2"	140X6	RSW-125A RSW/TRS-125
150	250	285	240	22.5	8-Ø22	24	280	240	22.5	8-Ø22	22	70X8	30	2"	168X6	RSW/TRS-150
200	250	340	295	22.5	8-Ø22	24	330	290	15	12-Ø22	22	102X10	40	3"	219X6	RSW-200(A) TRS-200A~250
250	250	395	350	15	12-Ø22	26	400	355	15	12-Ø22	24	102X10	40	3"	273X6.5	RSW-250
300	300	455	400	15	12-Ø22	26	445	400	11.25	16-Ø22	24	102X10	40	3"	325X7.5	RSW/TRS-300

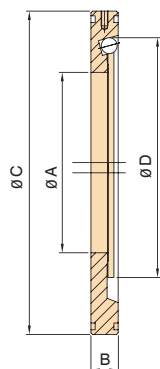
泄压阀 Pressure release valve



单位Unit: (mm)

型号 Type	A	H	重量 Weight (kg)	适用型号 Application type
SV1 1/4"	25	180	1.6	RSW-50~80 TRS-50~100
SV2"	25	160	2.5	RSW-100~150 TRS-125~150
SV3"	30	250	5.0	RSW-200A~300 TRS-200A~300

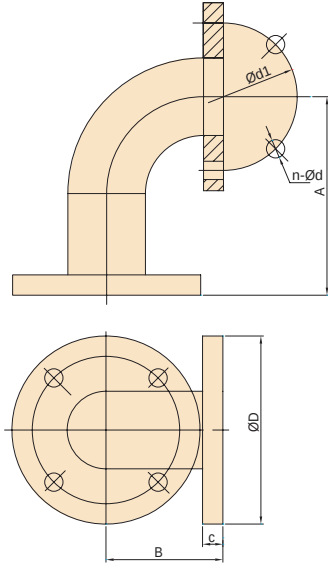
逆止阀 Check valve



单位Unit: (mm)

型号 Type	ØA	B	ØC	ØD	重量 Weight (kg)	适用型号 Application type
DCV-50	25	20	104	52.7	1.1	RSW-50 TRS-50~65
DCV-65	36	24	124	65.9	1.4	RSW-65
DCV-80	46	24	134	78.1	1.6	RSW-80 TRS-80~100
DCV-100	67	24	159	102.3	2.3	RSW-100
DCV-125(A)	88	25	190	126.6	3.4	RSW-125(A) TRS-125~150
DCV-150	108	26	220	151	5.0	RSW-150
DCV-200(A)	138	28	270	200	10.0	RSW-200(A) TRS-200A~250
DCV-250	185	28	335	251	18.0	RSW-250
DCV-300	203	45	368	267	22.35	RSW/TRS-300

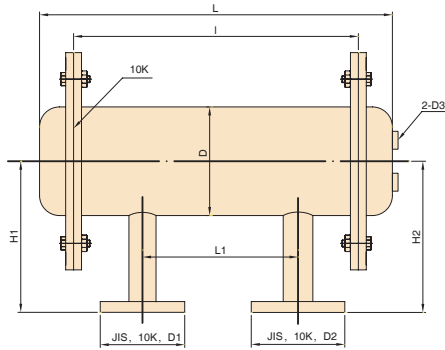
TRS弯头 TRS elbow



单位Unit: (mm)

适用型号 Application Type	A	B	ØD	Ød1	C	n-Ød
TRS-50	200	110	155	120	16	4-Ø19
TRS-65	200	115	175	140	18	4-Ø19
TRS-80	220	128	185	150	18	8-Ø19
TRS-100	250	161	210	175	18	8-Ø19
TRS-125	300	202	250	210	20	8-Ø23
TRS-150	320	240	280	240	22	8-Ø23
TRS-200(A)	315	315	330	200	22	12-Ø23
TRS-250	350	350	400	355	24	12-Ø25
TRS-300	470	470	445	400	24	16-Ø25

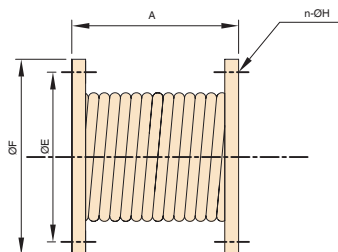
TRS冷凝器 Condenser



单位Unit: (mm)

型号 Type	D	D1	D2	H1	H2	L	I	L1	D3 (内螺纹)	适用型号 Application Type
25	8"	2"	1.5"	214	200	900	660	502	3/4"	TRS-50
30	8"	2.5"	2"	240	240	1100	800	585	3/4"	TRS-65
35	10"	3"	3"	240	240	1200	900	723	1"	TRS-80
40	10"	4"	4"	250	250	1300	1000	772	1"	TRS-100
50	12"	5"	5"	355	350	1400	1200	906	1"	TRS-125
60	14"	6"	5"	400	425	1500	1120	1023	1"	TRS-150
80	16"	8"	8"	600	600	1600	1200	1035	1"	TRS-200(A)
90	18"	8"	8"	600	700	1700	1250	1083	2"	TRS-200
100	20"	10"	8"	550	555	2200	1800	1220	2"	TRS-250
140	24"	12"	12"	600	600	2600	2000	1530	2"	TRS-300

波纹管 Bellows

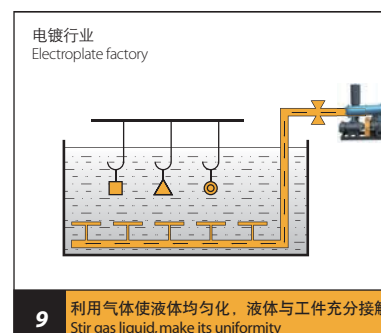
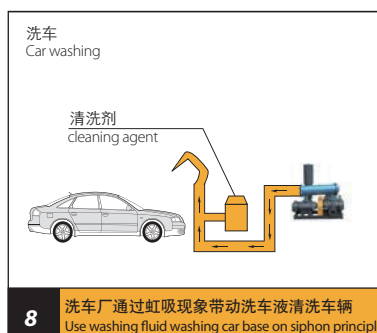
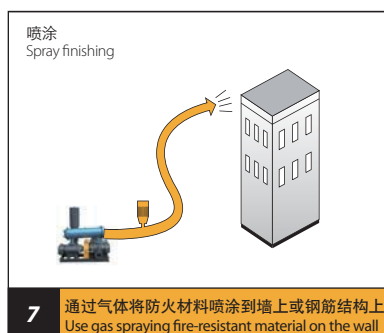
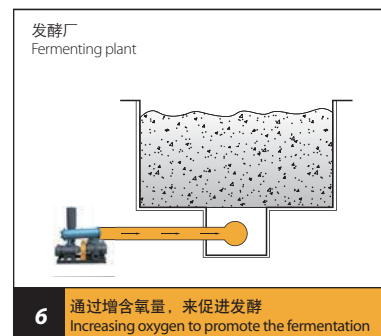
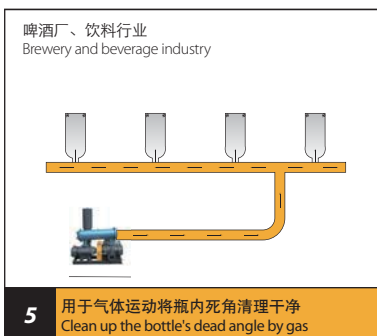
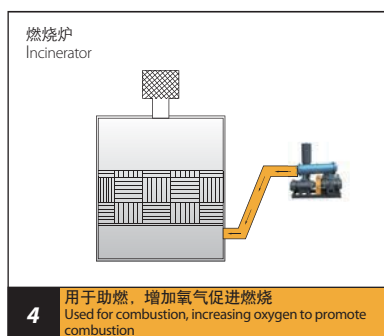
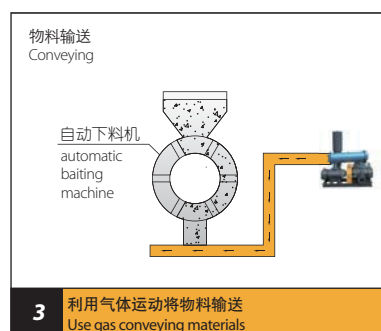
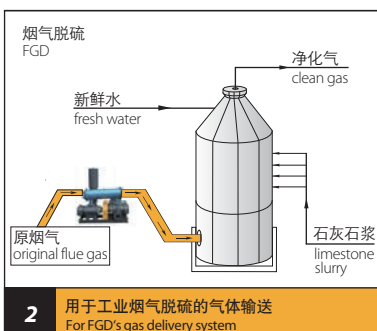
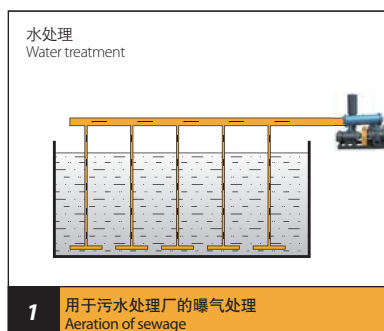


单位Unit: (mm)

型号 Type	A	ØE	ØF	n-ØH	适用型号 Application Type
WJT-40	160	Ø110	Ø150	4-Ø18	TRS-50
WJT-50	170	Ø125	Ø165	4-Ø18	RSW-50 TRS-65
WJT-65	180	Ø145	Ø185	4-Ø18	RSW-65
WJT-80	200	Ø160	Ø200	8-Ø18	RSW-80 TRS-80~100
WJT-100	210	Ø180	Ø220	8-Ø18	RSW-100
WJT-125	230	Ø210	Ø250	8-Ø18	RSW-125(A) TRS-125~150
WJT-150	260	Ø240	Ø285	8-Ø22	RSW-150
WJT-200	290	Ø295	Ø340	8-Ø22	RSW-200(A) TRS-200A~250
WJT-250	310	Ø350	Ø395	12-Ø22	RSW-250
WJT-300	330	Ø400	Ø455	12-Ø22	RSW/TRS-300



用途说明 Applications



如蒙洽询请指示下列各项：
For further details, please fulfill the chart below.

客户
Customer _____

承办人员
Undertaker _____

工程名称
Name of project _____

工程地点
Address of project _____

电话
Telephone _____

传真
Fax _____

* 当地状况 Local condition	海拔m Elevation		最高相对湿度% Max relative humidity	
	当地大气压力(MPa) Local atmospheric pressure		最高气温(°C) Max air temperature	
* 气体性质 Gas character	名称 Name		温度(°C) Temperature	
	成份 Constituents		各组分比例 Ratio of constituent	
风机参数 Blower's parameter	* 风量(m³/min) Capacity		口径(mm) Diameter	
	* 风压(mmAq) Pressure		转速(r/min) Speed	
电机参数 Motor's parameter	型式 Type		电压(V) Voltage	
	功率(kW) Power		频率(Hz) Frequency	
	极数 Pole		其它 Others	
安装位置 Location	☐ 室内安装 Indoor install	☐ 遮雨棚式室外安装 Camping outdoor install	☐ 其它 Others_____	
* 传动方式 Driving mode	☐ 皮带传动(标准型) Belt-driven(Standard)		☐ 直联传动 Direct drive	
其它要求 Other requirement				

备注：1. 以上资料请尽可能完整填写。

2. 项目前加注“*”者，请务必填写。

Notes: 1. Please fill in the parameter lists as complete as possible.

2. The item with "*" must be filled.



欢迎索取以下产品型录



泵系列

- 潜水泵系列
- 陆上泵系列
- 特种泵系列
- 消防泵系列



搅拌推流系列

- 搅拌机系列
- 推流器系列



供氧曝气系列

- 曝气机系列
- 曝气盘系列
- 曝气管系列



风机系列

- 三叶罗茨鼓风机系列
- 增压罗茨鼓风机系列



污泥处理设备 及其他

- 固液分离系列
- 泡药设备
- 输送设备



川源(中国)机械有限公司
GSD (China) Co., Ltd.

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800-820-1977

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