



ISO 9001 2000國際品質認證



本公司系列產品已通過CE認證  
ISO 9001 2000國際品質認證  
新型第101792號(凹凸緣設計)  
新式第086802號(沉水式設計)  
新型第134273號(直立式設計)

# 創新科技 技術超群

Advanced Technology Topnotch Skill

# 春鼎機械產品綜合型錄

## TRUNDEAN Machinery Product Series

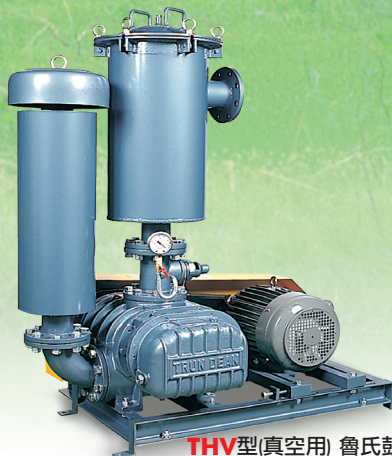


### 專業製造魯氏鼓風機

Specializing in the Manufacturing of Roots Blowers



TH型(壓送用) 魯氏鼓風機  
TH Type



THV型(真空用) 魯氏鼓風機  
THV Type



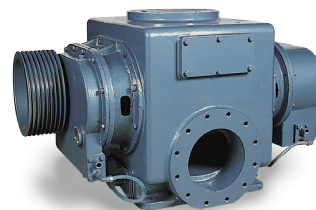
THL型(兩段式串聯) 魯氏鼓風機  
THL Type



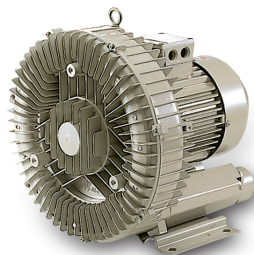
TV型 直立式魯氏鼓風機系列  
TV Type



THS型 側水冷式魯氏鼓風機 THS Type



THW型 全水冷式魯氏鼓風機  
THW Type



TS型 環型鼓風機系列 TS Type



TSW Type  
TSW型 沉水式魯氏鼓風機系列



TLF型 耐酸鹼化學過濾機系列 TLF Type



TPD型 耐酸鹼自吸泵浦系列  
TPD Type



TMD型 磁石驅動無軸封泵浦  
TMD Type



INDEX

(詳細資料備索)

封面 Cover.....	P1
綜合產品/INDEX Synthesis Products/Index.....	P2
公司簡介/各式專利證書 Company's Introduction/All Kinds of Patent Certifications.....	P3
魯氏鼓風機 Roots Blower.....	P4-P7
直立式鼓風機 Vertical Blower.....	P8-P11
沉水式鼓風機 Submersible Blower.....	P12-P15
環型鼓風機 Ring Blower.....	P16-P19
散氣盤 Diffuser.....	P20-P22
公司圖片簡介 Company's Photo Introduction.....	P23
封底/公司基本資料 The Back Cover/Company Basic Introduction .....	P24

# 堅持科技研發 開展永續經營

## 公司簡介 / 經營理念 / 專利產品特性

創立於1982年，春鼎機械工業有限公司1989年更名為春鼎機械工業股份有限公司。由於產品的品質精良，業務不斷的擴展，舊有之工廠已不敷所需，遂於2001年遷移至現址。春鼎公司堅持追求高品質的精神及汲取國外新觀念，以建立高品質的形象，更本著“顧客至上、品質至上、服務至上”的信念，以更積極的態度邁向更新的里程碑。春鼎公司以“TRUNDEAN”品牌行銷國內外，除台灣內銷市場外，觸角已伸達全世界三十餘國，並深獲當地好評。

春鼎公司本著精益求精的經營理念，積極投入研究發展工作，近年來已陸續取得多項產品之台灣與大陸專利，其中包含有魯氏鼓風機、直立式魯氏鼓風機、沉水式魯氏鼓風機、磁石驅動無軸封泵浦...等各項產品。

近年除深耕台灣市場外，更積極的擴展海外市場，並加強品質管制，期望能提供客戶更完善之服務。春鼎公司本著“穩定的品質”、“積極研發新產品”、“誠懇迅速的服務”之信念，為企業的永續經營奠定良好的基石。

春鼎公司主要生產產品如下：

- ◆ 魯氏鼓風機
- ◆ 魯氏真空泵浦
- ◆ 水冷式魯氏鼓風機
- ◆ 環型高壓鼓風機
- ◆ 直立式魯氏鼓風機
- ◆ 透浦式鼓風機
- ◆ 沉水式魯氏鼓風機
- ◆ 廢水處理曝氣設備
- ◆ 耐酸鹼無軸封泵浦
- ◆ 化學藥液過濾機
- ◆ 自吸式泵浦

# TRUNDEAN OVERVIEW

## Concept and Product Characteristics

Trundean Machinery Co., Ltd. was established in 1982. Due to market requirements and business expansion we moved to a new factory at the present location in 2001. Trundean insists on pursuing the goals of high quality and the absorption of advanced ideas from abroad each passing day so as to build the perfect company. Trundean dedicates itself toward maintaining the ideals of customers, quality and service first.

Marketing additional to Taiwan, our company has conducted business in over 30 countries to much acclaim. Because of our professional techniques, the company has been awarded many patents including Roots Blower types, Vertical Roots Blower types, Submersible Roots Blower types and Magnetic Drive Pump Series by manufacturing high-quality durable and safe products, as reliable equipment supplier with great result and approval to you.

Every year, we not only cultivate the local market but also extend our efforts overseas as well as enhance our quality control, and anticipate our customer's every need. Trundean emphasizes stability quality, the extensive development of new products and sincerely service in order to be a continuous cornerstone in today's market.

## 為何選擇春鼎魯氏鼓風機？

### Why Should You Select the Trundean Roots Blower?

本公司具有ISO 9001 2000國際品質認證及CE認證資格

Trundean Machinery provided with ISO 9001 2000 Quality Certificate and CE Certificate qualifications



## 春鼎魯氏鼓風機各項專利特點

- ◆ 魯氏鼓風機之改良：專利證號新型第一〇一七九二號採凹凸緣緊密配合替代傳統插銷裝配防止位移永無偏心運轉狀態。
- ◆ 水冷式魯氏鼓風機：專利證號新型第一一六七一七號降低機體溫度，減少軸承齒輪因長期高壓昇溫運轉所造成之損壞。

**傳統鼓風機壓力振幅大，造成振動及噪音，縮短軸承、齒輪及其他傳動元件的壽命。**

Traditional blowers result in pressure pluses and vibrations that rob power and shorten the life of every bearing, gear and other transmission component.

## 較低的能源損耗

春鼎魯氏鼓風機的設計能減少逆流對轉子的壓力，相對的也減少能源的損耗。

### Lower Energy Consumption

TRUNDEAN new Roots Blower are designed to control backflow pressure to the rotor in order to reduce energy consumption.

## 較低的噪音

壓力脈衝是主要的噪音源，春鼎魯氏鼓風機能有效降低噪音達5dB。

### Lower Noise

Pressure pluses are the major noise source in blowers. The TRUNDEAN new Roots Blower design can efficiently reduce noise by approximately 5 dB.

## 軸承壽命延長

由於葉輪傳遞的振動減少，得以延長軸承壽命達20%。

### Longer Bearing Life

Less vibration transmitted through the lobe results in approximately 20% longer bearing life.

公司的經營理念 研究創新、技術超群、產品精良、服務誠懇。

春鼎魯氏鼓風機掌握核心技術·絕對是您最佳的選擇

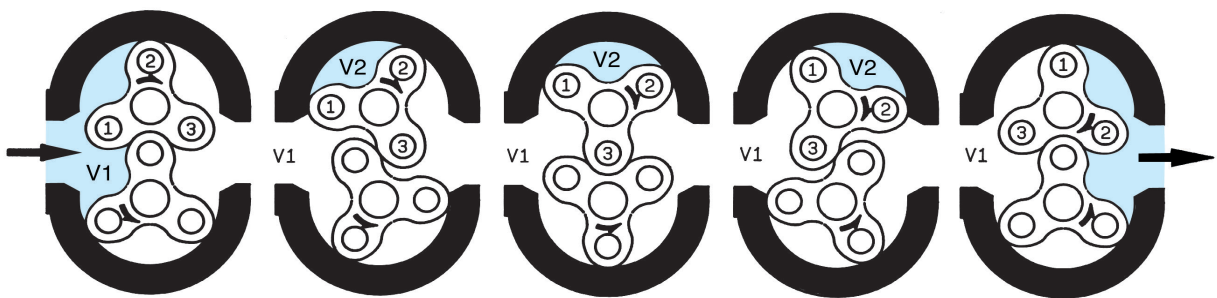
## 春鼎鼓風機特點：

- 一、本公司生產之鼓風機氣室與側蓋採凹凸緣密合，以提高鼓風操作強度且防止螺栓固定時引起偏心現象而影響鼓風機之壽命。
- 二、本公司葉輪採用最先進之四軸加工一次加工法，以減少人為誤差，提昇葉輪之精密度，並提高鼓風機之效率。
- 三、免潤滑油無故障  
在轉子與轉子間，及轉子與殼體間，設有適當間隙，在運轉中互不接觸，內部不需潤滑處理、機械部份之接觸，採正時齒輪嚙合模式、且殼體（轉子動作室）以側蓋氣油分離，不致有潤滑油混入之虞，故吐出之氣體為不含油成份之清淨空氣，即使在長期運轉情況下，亦可安心使用。  
高度標準化之組件、品質保證，所有零件均經CNC自動化工作母機加工，規格均一致化，即使因不當使用所導致之損害，亦能輕而易舉的更換新舊零件，節省維修時間、與工時費用、零件特價供應不虞維護之困擾、訓練有素之外勤服務人員，讓台端得到最佳之售後服務。
- 四、低噪音、低震動  
在噪音及振動之防治方面，本公司曾經多年加以研究，此一系列新機種乃採高精度轉子結構，以遂行理想之逆流壓縮功能，鼓風機吐出空氣之脈動，可更平滑的進行，噪音及振動均可大幅度減低，因此，就小型鼓風機而言，可免加裝出口消音器。

## The Characteristic of the TRUN-DEAN Blower:

- \* The air compartment and the side cover of our blower has a flange and groove rim, which can not only strengthen the blower's operational functions but also prevent eccentric phenomenal resulting from the fastening of the stud, which may shorten the life of the blower.
- \* To reduce man-made errors, enhance the precision of the leave-wheel, and to promote the blower efficiently, our rotor uses the most advanced--one time work process Four- Shaft method.
- \* **Unique Design with Quality Components**  
Appropriate clearance between the rotors and the rotors with the casing ensure no direct operational contact, hence no lubrication is necessary. The synchronous gear drive system and the shaft bearings are the only parts which require lubrication. Separate lateral chambers are designed to house these moving parts with proper seals to prevent oil leakage to the main chamber. Computerized CNC machines are used to produce components and parts of high quality and precision, also saves the user both time and labor during maintenance and replacement.
- \* **Low Noise & Minimal Vibration**  
Noise and vibration reduction are the main emphasis in developing the new series of roots blower. The TRUNDEAN Blower rotor concept was adopted based on its flow characteristics which is very stable and even compared to the 2 lobes type, also coupled with the fact that it shows a considerable reduction of both noise and vibration. The extent of reduction can even allow the smaller unit to operate without the need of a silencer.

## 鼓風機動作原理：



魯氏鼓風機之動作原理為機體氣室內裝置兩組葉輪，以相反方向迴轉時，吸入側因容積V1變化而產生低壓，為平衡壓力而吸入空氣，而形成容積V2之空氣，再由吐出側送出空氣，由吐出口之阻力而產生高壓。由於兩葉輪間保有一定之間隙，因此兩葉輪並無相互摩擦，所以不必在葉輪間添加任何潤滑劑，即可高速運轉排送潔淨空氣，亦可用於真空用途。

## Principle of the Blower Operation:

There are two sets of rotors in the air compartment of the blower body, when the rotors operate in opposite directions they suck in air to balance the pressure created due to the volume V1 change on the inlet side. And the air of the volume V2 will be sent out thru the outlet side and the high pressure will be created thru the outlet mouth. Also, there is no need to apply any lubrication between the two rotors because of the existing gap between them which gives no worry about the possibility of friction. It runs well at high speed and produces clean air. It also can be used in vacuum circumstances.

# TH型 魯氏鼓風機性能表 Performance Table of TH-type Roots Blower

機型 TYPE	轉速 R.P.M	風量 Qs (m <sup>3</sup> /min)				風壓 P (mmAq)				傳動馬力 La (Kw)				轉速 R.P.M
		1000 mmAq		2000 mmAq		3000 mmAq		4000 mmAq		5000 mmAq		6000 mmAq		
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	
TH-40	1750	0.60	0.26	0.56	0.39	0.54	0.53							1750
	2000	0.71	0.30	0.68	0.45	0.65	0.60							2000
	2300	0.84	0.34	0.81	0.51	0.78	0.69							2300
	2600	0.97	0.38	0.84	0.57	0.91	0.78							2600
TH-50	1000	1.33	0.72	1.18	1.07	1.04	1.45	0.90	1.81					1000
	1250	1.86	0.91	1.71	1.35	1.57	1.82	1.43	2.27	1.31	2.69			1250
	1450	2.29	1.05	2.14	1.56	2.00	2.10	1.86	2.62	1.74	3.11			1450
	1560	2.53	1.13	2.38	1.68	2.24	2.26	2.10	2.82	1.97	3.35			1560
TH-65	1750	2.94	1.27	2.78	1.88	2.65	2.54	2.51	3.17	2.38	3.75			1750
	1000	2.76	1.20	2.48	1.90	2.27	2.50	2.06	3.10	1.85	3.70			1000
	1250	3.41	1.50	3.14	2.20	2.93	2.90	2.72	3.60	2.51	4.30			1250
	1420	4.03	1.70	3.76	2.50	3.55	3.30	3.34	4.20	3.23	5.00			1420
TH-80	1550	4.48	1.80	4.23	2.70	4.00	3.60	3.79	4.50	3.58	5.40			1550
	1750	5.17	2.10	4.89	3.10	4.68	4.10	4.47	5.10	4.26	6.10			1750
	1000	4.38	1.50	3.94	2.40	3.57	2.80	3.25	4.30	2.97	5.20	2.72	6.10	1000
	1150	5.27	1.80	4.85	2.90	4.48	3.90	4.16	5.00	3.87	6.00	3.61	7.10	1150
TH-100	1300	6.17	2.00	5.74	3.20	5.37	4.40	5.05	5.60	4.76	6.80	4.51	8.00	1300
	1450	7.07	2.20	6.65	3.60	6.28	5.00	5.96	6.30	5.66	7.60	5.41	9.00	1450
	1600	7.96	2.50	7.54	4.00	7.17	5.50	6.85	6.90	6.55	8.40	6.30	9.90	1600
	1000	6.72	2.30	6.22	3.50	5.72	4.80	5.38	6.10	5.04	7.40			1000
TH-125	1150	8.00	2.80	7.42	4.20	7.02	5.50	6.58	7.20	6.34	8.50			1150
	1300	9.26	3.00	8.71	4.60	8.26	6.30	7.89	8.00	7.57	9.70			1300
	1450	10.50	3.40	9.96	5.20	9.51	7.00	9.14	9.00	8.82	10.80			1450
	1600	11.80	3.70	11.20	5.70	10.80	7.80	10.40	9.90	10.10	12.00			1600
TH-125A	970	11.0	3.4	10.2	5.7	9.5	7.9	8.9	10.2	8.5	12.5	8.0	14.8	970
	1150	13.5	4.0	12.7	6.7	12.1	9.4	11.5	12.1	11.0	14.8	10.6	17.5	1150
	1300	15.6	4.5	14.8	7.6	14.2	10.6	13.6	13.6	13.1	16.7	12.7	19.8	1300
	1450	17.7	5.0	16.9	8.5	16.2	11.8	15.6	15.2	15.2	18.7	14.7	22.1	1450
TH-150	1600	19.8	5.5	19.0	9.3	18.3	13.0	17.7	16.8	17.3	20.6	16.8	24.4	1600
	970	14.1	4.2	13.1	7.1	12.4	9.9	11.7	13.0	11.2	15.7	10.7	18.5	970
	1150	17.2	5.0	16.3	8.4	15.6	11.8	14.8	15.4	14.4	18.6	13.8	22.0	1150
	1300	19.9	5.7	18.9	9.5	18.2	13.3	17.5	17.4	17.0	21.0	16.5	24.8	1300
TH-150A	1450	22.5	6.3	21.6	10.6	20.9	14.8	20.2	19.4	19.6	23.4	19.1	27.7	1450
	1600	25.2	7.0	24.2	11.7	23.5	16.4	22.8	21.4	22.3	25.9	21.8	30.6	1600
	970	16.8	4.9	15.7	8.4	14.9	11.8	14.2	15.2	13.5	18.6			970
	1150	20.6	5.8	19.5	9.9	18.6	14.0	17.9	18.0	17.3	22.1			1150
TH-200	1300	23.7	6.6	22.6	11.2	21.8	15.8	21.1	20.4	20.4	25.0			1300
	1450	26.9	7.4	25.8	12.5	24.9	17.6	24.2	22.7	23.6	27.9			1450
	1600	30.0	8.1	28.9	13.8	28.1	19.4	27.4	25.1	26.7	30.7			1600
	850	20.7	6.1	19.5	10.2	18.3	14.3	17.5	18.4	16.7	22.6	16.1	26.7	850
TH-250	1000	25.0	7.1	23.7	12.0	22.6	16.9	21.7	21.7	20.9	26.6	20.3	31.4	1000
	1150	29.3	8.2	27.9	13.8	26.9	17.7	25.9	22.8	25.2	30.6	24.5	36.1	1150
	1250	32.2	8.9	30.8	15.0	29.7	21.1	28.8	27.2	28.0	33.3	27.3	39.3	1250
	1400	36.4	10.0	35.0	16.9	34.0	23.6	33.0	30.4	32.3	37.3	31.6	44.0	1400
TH-300	730	24.6	6.7	23.8	11.2	23.2	15.9	22.7	20.5	22.1	25.1	21.7	29.7	730
	850	28.6	7.8	27.7	13.1	27.0	18.5	26.4	24.0	25.6	29.2	25.3	34.6	850
	950	32.0	8.7	31.0	14.6	30.2	20.7	29.5	26.7	28.8	32.6	28.3	38.7	950
	1050	35.3	9.6	34.3	16.2	33.3	22.8	32.6	29.5	31.8	36.1	31.3	42.7	1050
TH-300A	1150	38.7	10.5	37.5	17.7	36.5	25.0	35.7	32.3	34.9	39.5	34.2	46.8	1150
	1250	42.1	11.4	40.8	19.3	44.7	27.2	38.8	35.1	38.0	43.0	37.2	50.9	1250
	730	38.6	9.7	37.5	16.6	36.6	23.7	35.9	30.8	35.2	37.9	34.5	44.8	730
	850	44.9	11.2	43.7	19.4	42.6	27.6	41.8	35.8	40.9	44.1	40.2	52.2	850
TH-300A	950	50.1	12.6	48.8	21.6	47.7	30.8	46.7	40.1	45.8	49.3	44.9	58.3	950
	1050	55.4	13.9	54.0	23.9	52.7	34.1	51.6	44.3	50.6	54.5	49.7	64.5	1050
	1150	60.7	15.2	59.1	26.2	57.7	37.3	56.5	48.5	55.4	59.7	54.4	70.6	1150
	1250	65.9	16.6	64.3	28.5	62.8	40.6	61.4	52.8	60.3	64.9	59.2	76.8	1250
TH-300A	730	52.8	15.7	50.8	27.4	49.2	39.1	47.8	50.8	46.5	62.5	45.4	74.8	730
	800	58.4	17.1	56.4	29.9	54.8	42.6	53.4	55.4	52.0	68.1	50.9	81.6	800
	880	64.8	18.8	62.8	32.8	61.1	46.7	59.7	60.7	58.3	74.6	57.2	89.4	880
	980	72.9	20.7	70.9	36.2	69.2	51.4	67.8	66.9	66.4	82.3	65.2	98.6	980
TH-300A	1080	81.1	22.9	79.1	39.9	77.4	56.7	76.0	73.8	74.6	90.8	73.4	108.7	1080
	1180	89.3	25.0	87.3	43.6	85.6	62.0	84.1	80.6	82.7	99.2	81.6	118.7	1180
	650	74.8	21.9	72.2	39.1	69.9	55.2	68.1	72.5	66.3	89.7	64.8	97.8	650
	730	85.2	24.2	82.6	43.7	80.4	62.1	78.6	80.5	76.9	100.0	75.3	118.5	730
TH-300A	800	94.4	26.5	91.8	47.2	89.7	67.9	87.8	88.6	86.1	109.3	84.5	130.0	800
	880	105.3	29.9	102.6	51.8	100.3	74.8	98.4	97.8	96.6	120.8	95.1	143.8	880
	980	117.8	33.4	115.5	58.7	113.4	82.8	109.6	109.3	108.9	134.6	108.1	159.9	980

公司的經營理念：研究創新、技術超群、產品精良、服務誠懇。 Our Ideal: Innovation, Topnotch, Exclusive, Sincerity  
**春鼎魯氏鼓風機掌握核心技術 · 絕對是您最佳的選擇** **Trundean Roots Blower control the core of technology and absolutely is your best choice.**

魯氏鼓風機

直立式魯氏鼓風機

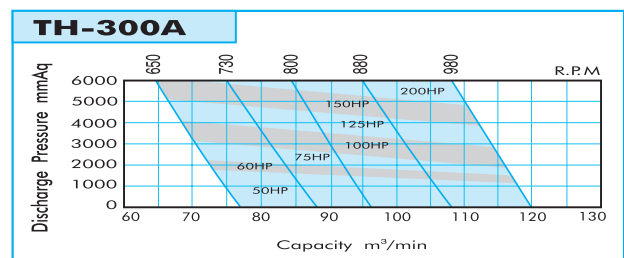
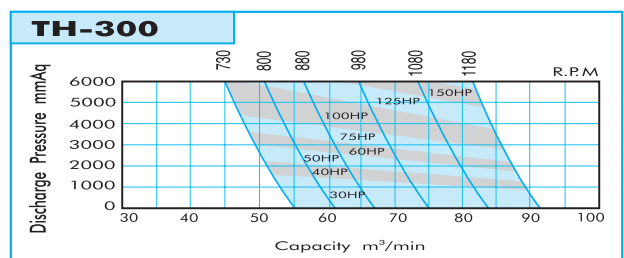
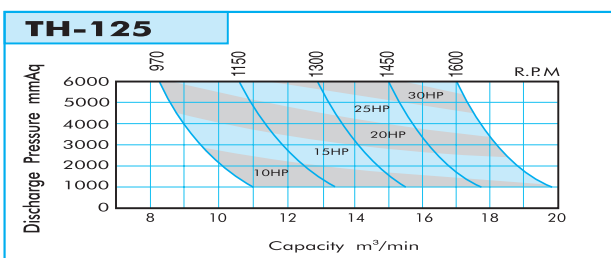
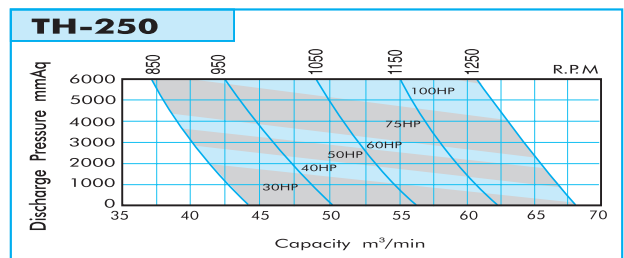
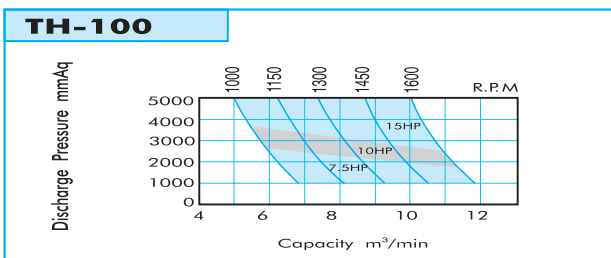
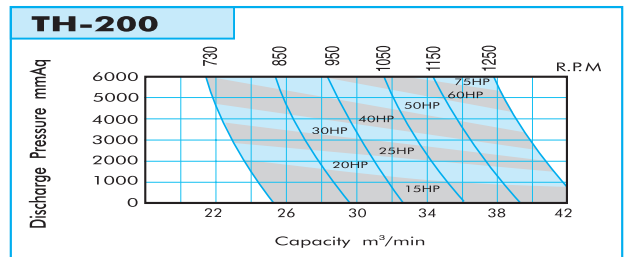
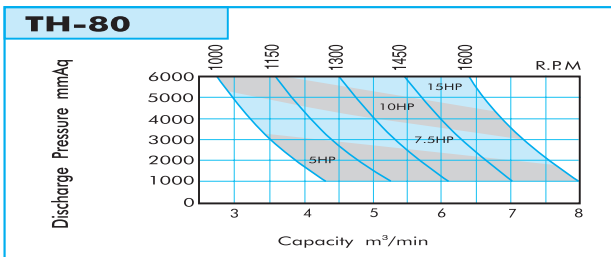
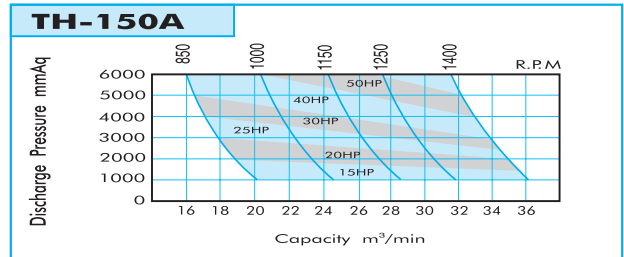
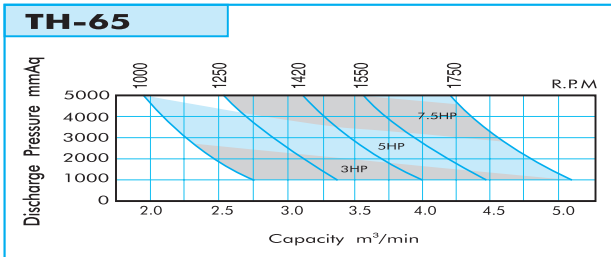
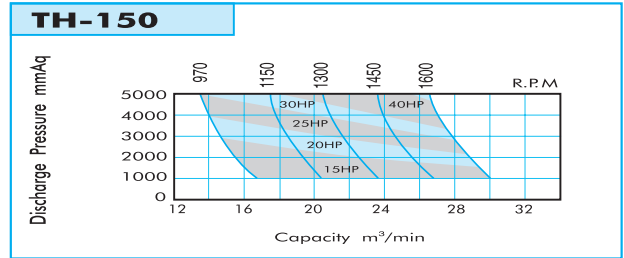
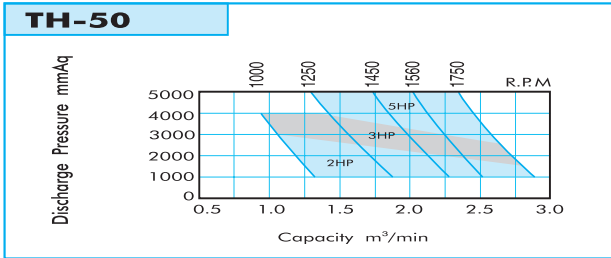
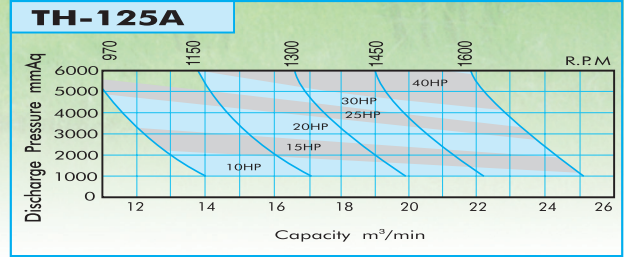
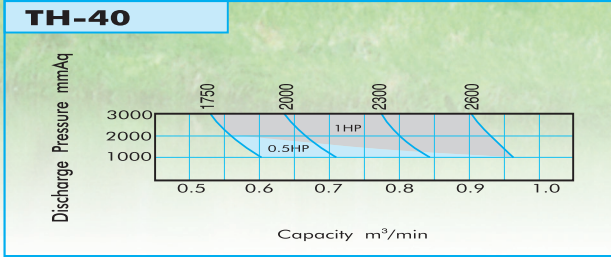
沉水式魯氏鼓風機

圓頂型魯氏鼓風機

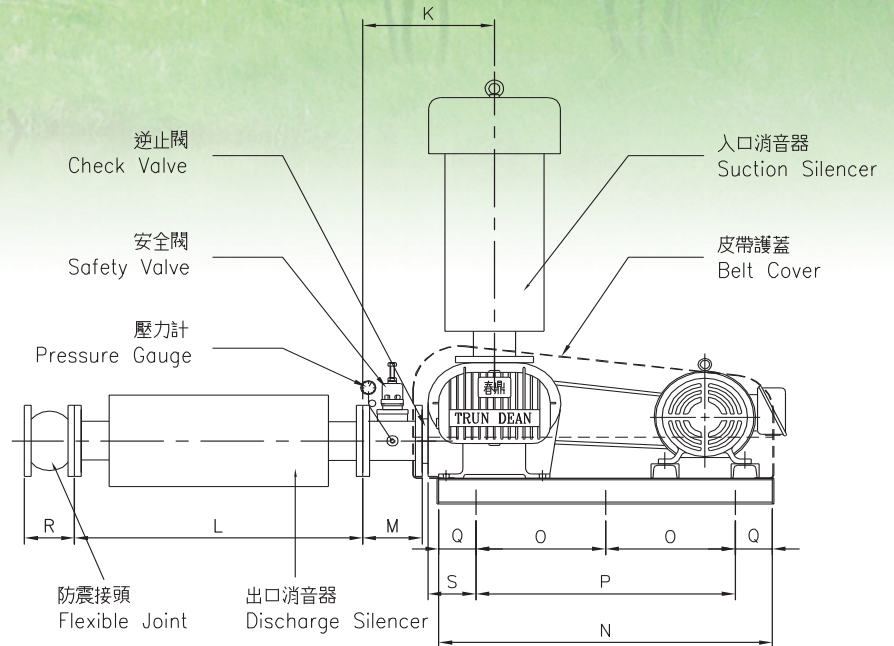
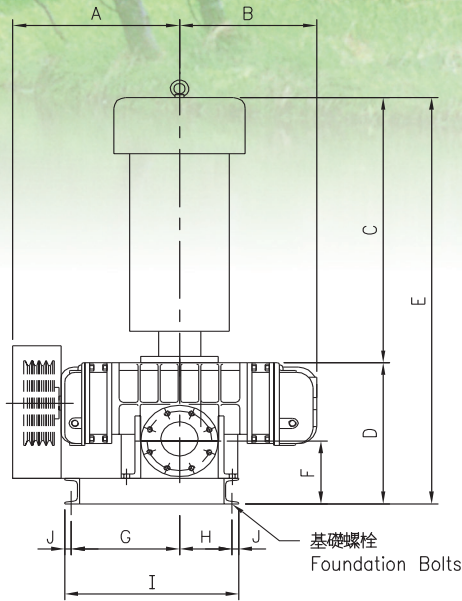
散氣器

# TH型性能曲線圖

## TH type Performance Curve



# TH外型尺寸 TH Type Outside Dimensions



機型 Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	重量1	重量2
TH-40	190	195	525	237	762	185	177	117	330	18	301	525	85	500		400	50	95	50	28	71
TH-50	330	265	765	337	1102	170	312	122	470	18	326	780	160	700		600	50	105	80	90	160
TH-65	350	310	780	337	1117	170	332	102	470	18	326	780	160	700		600	50	115	80	105	185
TH-80	370	320	780	410	1190	177	292	142	470	18	380	780	185	900		700	100	130	120	170	265
TH-100	450	370	780	415	1195	190	292	142	470	18	380	780	185	900		700	100	135	120	185	300
TH-125	412	382	1395	530	1925	230	323	233	600	22	451	1405	200	1100		900	100	170	135	315	530
TH-125A	452	422	1395	530	1925	230	288	268	600	22	451	1405	200	1100		900	100	170	135	350	565
TH-150	507	477	1395	545	1940	245	343	213	600	22	454	1405	200	1100		900	100	180	135	375	600
TH-150A	527	507	1395	633	2028	280	400	156	600	22	514	1405	200	1400		1200	100	180	155	625	875
TH-200	535	505	1550	860	2410	380	510	390	950	25	583	1410	200	1700	750	1500	100	205	150	810	1190
TH-250	630	600	1550	860	2410	415	604	296	950	25	633	1410	250	1700	750	1500	100	240	147	970	1380
TH-300	761	680	1550	915	2465	432	525	375	950	25	633	1410	250	1700	750	1500	100	260	179	1120	1740
TH-300A	798	645	1550	995	2545	435	740	510	1300	25	732	1410	250	2200	1000	2000	100	260	180	1575	2220

重量1：欄內重量為主機之重量。(kg)

Weight 1: main body only without any motor and other accessories. (Unit:kg)

重量2：欄內重量為主機及所有配件之總重量（配件含入口消音器、連結底座、出口短管、安全閥、出口消音器、皮帶護蓋...等，不含馬達）。

Weight 2: main body with all accessories (inlet and outlet silencer, base plate, safety valve, belt cover, etc....) and without motor. (Unit:kg)

## 魯氏鼓風機使用說明

★啟動鼓風機前，請檢查下列各點，確認無誤後才發動。

1. 配管
  - ◆配管內有無異物，接合部是否牢固。
  - ◆活門是否全開，不會使壓力上昇之狀態。
2. 電源
  - 電線接線、電壓、頻率（周期）等是否正確。
3. 轉動方向
  - 請依照箭頭所指方向使其轉動，如果因逆轉，使水進入鼓風機內時，即刻依箭頭所指方向轉30分鐘~1小時，就能防止生鏽。
4. 安全閥
  - 按規定壓力或常用壓力之1.5~2.5倍，來調整安全閥。
5. 潤滑油
  - ◆確認齒輪箱軸承潤滑油箱內之油位線，是否在計量器的中央，且每三個月換一次油。
  - ◆每次開機前，請先用手試著運轉看看是否順暢之後再開機。

★初期雜音

初運轉因潤滑油的粘度關係，偶爾會發出異常的聲音，但10~20分鐘後就變正常。

★運轉中請多注意（聲音、壓力、電流、溫度等）是否正常。如發生異常時，即刻停止運轉，調查其原因。

## The Roots Blower Usage Instructions

❖ Before starting the blower, check the following to make sure they are all normal.

1. Distribution Pipes
  - \*Make sure the insides of the pipes are clean; make sure all tappings are tightly secured.
  - \*Make sure all the Valves are open, to avoid pressure going up.
2. Power Supply
  - Wire tappings, voltage, frequency, etc.. must be normal.
3. Direction of Rotation
  - Should be in line with the arrow direction; otherwise, adjust and correct this by 30 minutes to one hour arrow-pointing-direction running instead of becoming rusty.
  - This way rust can be prevented.
4. Safety Valve
  - To adjust the Safety Valve, go for 1.5 to 2.5 times of the average pressure.
5. Lubrication
  - \*Make sure that the oil level stays in the middle of the gauge; change the oil once every three months.
  - \*Before turning on the machine each time see whether it is smooth by hand-pushing.
  - Try not turn on the machine when it is not smooth.

❖ The initial noise

It is normal to have a little noise right after the machine is turned on, because of the viscosity of the oil. It should stop or die down within 20 minutes.

❖ Pay attention during operation to its noise, pressure, current and temperature, etc..... Make sure they are all normal. If anything unusual, turn off the power immediately and find the cause.

# 為何選擇春鼎直立式魯氏鼓風機？

## Why Should You Select the Trundean Vertical Roots Blower?

傳統皮帶式鼓風機壓力振幅大，造成振動及噪音，縮短軸承、齒輪及其他傳動元件的壽命。

**Traditional blowers result in pressure pulses and vibrations that rob power and shorten the life of every bearing, gear and other transmission component.**

### 較低的能源損耗

春鼎直立式魯氏鼓風機的設計能減少逆流對轉子的壓力，相對的也減少能源的損耗。

#### Lower Energy Consumption

TRUNDEAN Vertical Roots Blower are designed to control backflow pressure to the rotor in order to reduce energy consumption.

### 減免經常性之保養困擾

春鼎直立式魯氏鼓風機採用直結式傳動，可減免皮帶之經常性損耗保養及機器漏油之困擾。

#### Reduces the amount of regular maintenance that needs to be performed.

The TRUNDEAN Vertical Roots Blower uses direct-drive, reducing wear and tear on the belt, reducing the amount of maintenance needed, and reducing the risk of oil leaks.

### 裝置簡單

裝置簡單、省工時、不佔空間、不需防音設備……即達成低噪音之生活空間。

#### Easy Installation

The Blower is simple to install, does not require much time to maintain, does not occupy much space, and provides a noise-free living environment without the need for additional noise prevention equipment.

### 較低的噪音

壓力脈衝是主要的噪音源，春鼎直立式魯氏鼓風機相較於皮帶式鼓風機能有效降低噪音達5dB。

#### Lower Noise

Pressure pulses are the major noise source in blowers. The TRUNDEAN Vertical Roots Blower design can efficiently reduce noise by approximately 5 dB.

### 機器體積小·不佔空間

春鼎直立式魯氏鼓風機體積小，不佔空間，而出氣口可依現場環境調整方向，安裝容易。

#### The blower is compact, occupying only a small amount of space.

Not only is the TRUNDEAN Vertical Roots Blower very compact, the direction of the air vent can be adjusted according to actual needs, and the unit is easy to install.

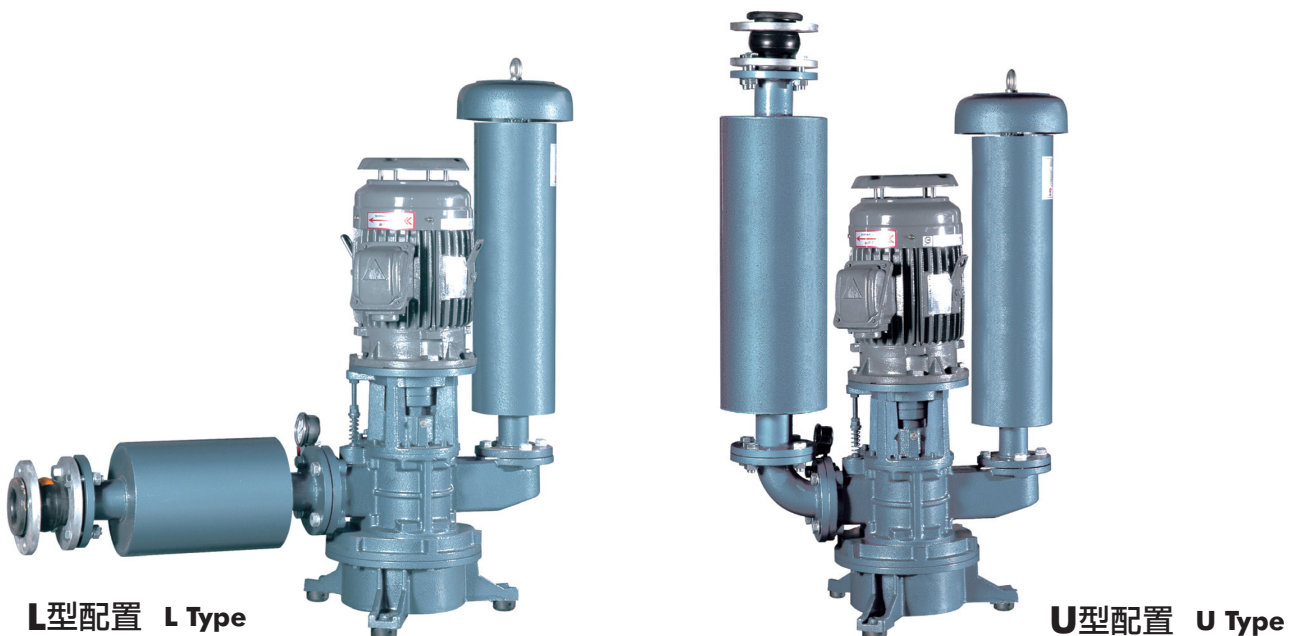
### 軸承壽命延長

由於葉輪傳遞的振動減少，得以延長軸承壽命達20%。

#### Longer Bearing Life

Less vibration transmitted through the lobe results in approximately 20% longer bearing life.

### 直立式魯氏鼓風機外觀圖 The Surface of Vertical Roots Blower

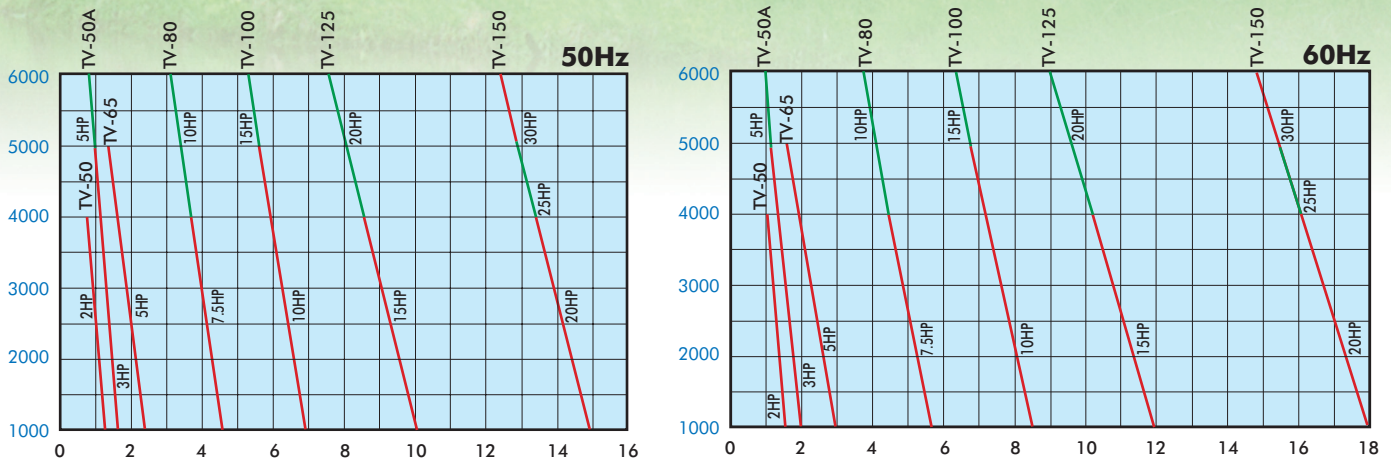


L型配置 L Type

U型配置 U Type



# 性能曲線圖 Performance Curve



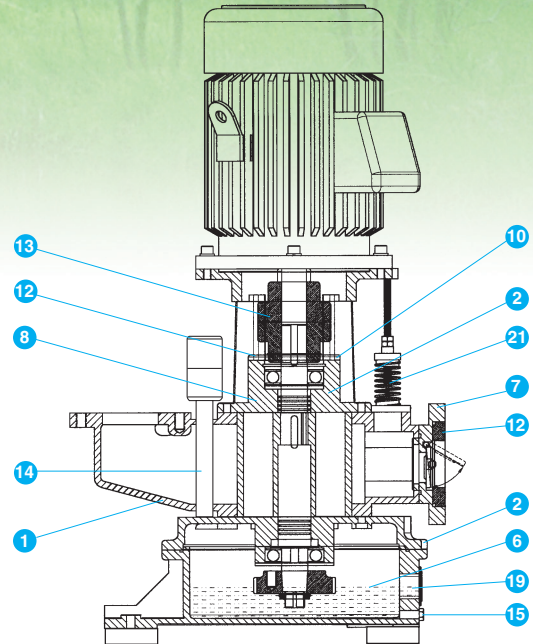
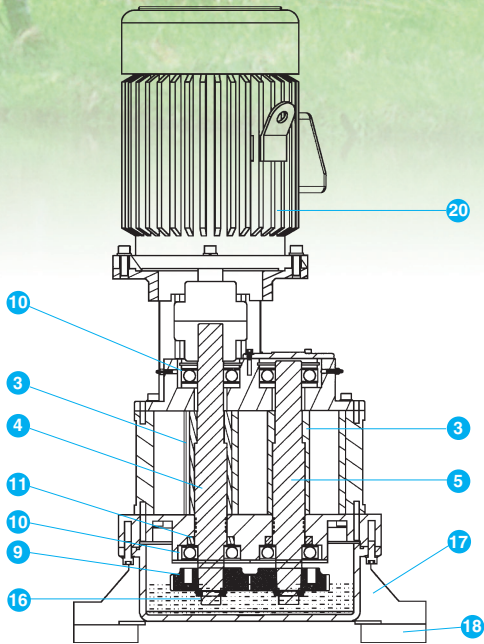
## 直立式魯氏鼓風機性能表 Specifications of Vertical Roots Blower

機型 Model	口徑 Bore	馬力 Power HP	壓力 Kgf/cm <sup>2</sup> , 風量 m <sup>3</sup> /min Pressure kgf/cm <sup>2</sup> , Capacity m <sup>3</sup> /min														
			50Hz							噪音值 Noise	60Hz						噪音值 Noise
			0.1	0.2	0.3	0.4	0.5	0.6	0.1		0.2	0.3	0.4	0.5	0.6		
TV-50	2"	2	1.26	1.10	0.93	0.76			54	1.58	1.37	1.16	0.95			56	
TV-50A	2"	3	1.60	1.44	1.28	1.12	0.96		56	1.99	1.79	1.59	1.39	1.19		58	
TV-50A	2"	5	1.60	1.44	1.28	1.12	0.96	0.80	58	1.99	1.79	1.59	1.39	1.19	0.99	60	
TV-65	2.5"	5	2.46	2.18	1.90	1.63	1.35		60	3.02	2.68	2.34	2.00	1.66		62	
TV-80	3"	7.5	4.59	4.30	4.00	3.70			65	5.60	5.24	4.88	4.52			67	
TV-80	3"	10	4.59	4.30	4.00	3.70	3.41	3.11	68	5.60	5.24	4.88	4.52	4.16	3.80	70	
TV-100	4"	10	6.98	6.64	6.31	5.97	5.63		71	8.45	8.04	7.63	7.22	6.81		73	
TV-100	4"	15	6.98	6.64	6.31	5.97	5.63	5.29	73	8.45	8.04	7.63	7.22	6.81	6.40	75	
TV-125	5"	15	10.0	9.52	9.02	8.52			75	12.0	11.4	10.8	10.2			77	
TV-125	5"	20	10.0	9.52	9.02	8.52	8.02	7.52	76	12.0	11.4	10.8	10.2	9.6	9.0	78	
TV-150	6"	20	14.9	14.4	13.9	13.4			79	17.9	17.3	16.7	16.1			81	
TV-150	6"	25	14.9	14.4	13.9	13.4	12.9		81	17.9	17.3	16.7	16.1	15.5		83	
TV-150	6"	30	14.9	14.4	13.9	13.4	12.9	12.4	83	17.9	17.3	16.7	16.1	15.5	14.9	85	

※噪音值係壓力0.3kgf/cm<sup>2</sup>，在標準配管狀態下，離鼓風機1m處所量測之值。

# 直立式鼓風機結構圖

## Structural Graphs for the Vertical Roots Blower

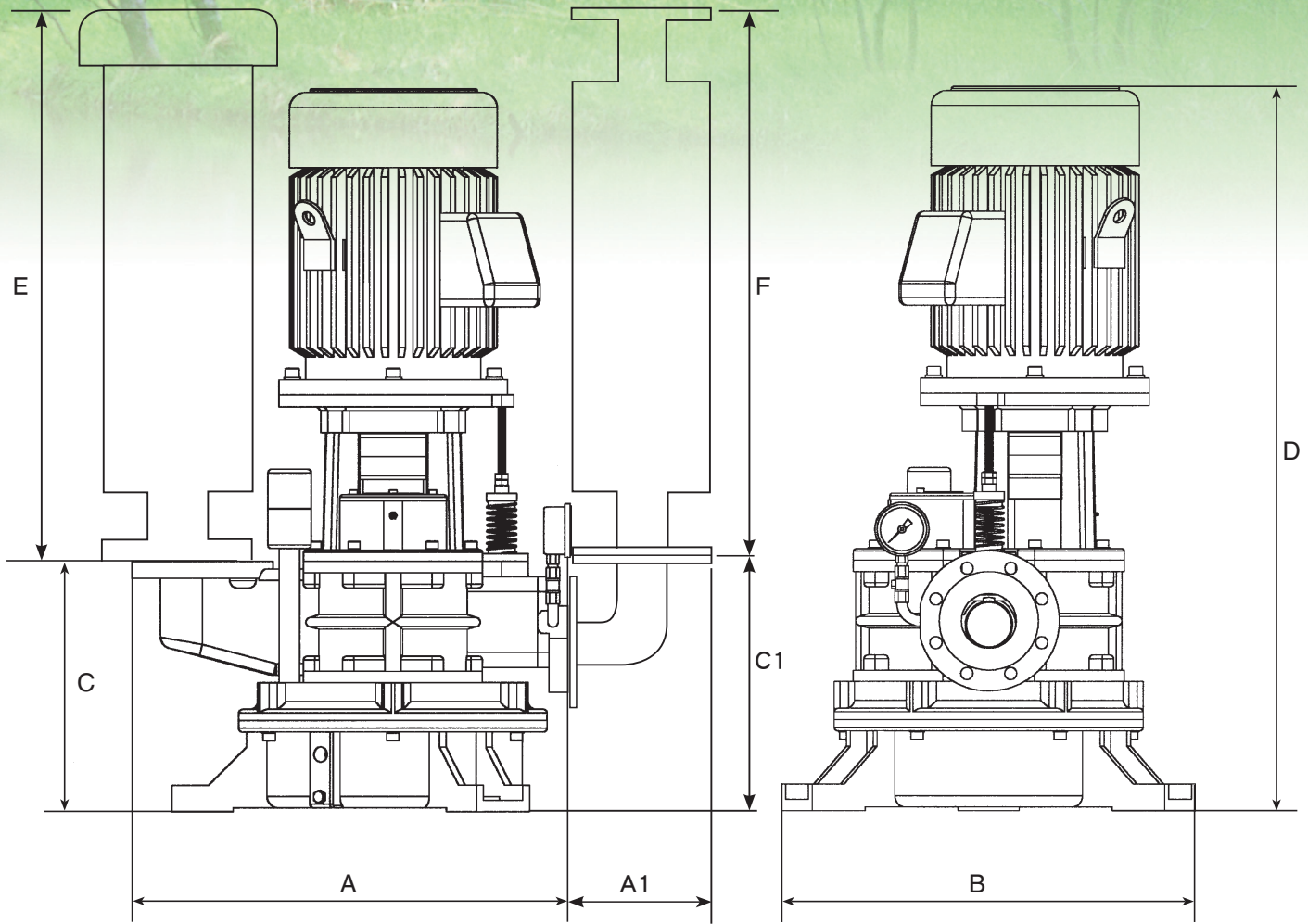


### 直立式魯氏鼓風機材質表 Material Chart of Vertical Roots Blower

編號 No.	名稱 Name	數量 Q'ty	材質Material	編號 No.	名稱 Name	數量 Q'ty	材質Material
1	本體 Main Body	1	FC 250	12	碟型彈簧片 Dish Springs	2	N 63 CA
2	軸承座 Bearing Base	1	FC 250	13	聯軸器 Coupling	1	FCD 500
3	葉輪 Rotor	2	FC 250	14	入油栓塞 Lubrication Plug	1	FCMB 28
4	主動軸 Drive Shaft	1	SCM 440	15	洩油栓塞 Oil Drain Plug	1	FCMB 28
5	被動軸 Driven Shaft	1	SCM 440	16	固定螺絲帽 Nut	2	S 45 C
6	油箱 Oil Box	1	FC 250	17	支撐底座 Base	1	FC 250
7	逆止閥 Check Valve	1	FC 250	18	防震墊片 Vibration Isolator	1	SBR
8	軸心襯套 Shaft Link	2	S 45 C	19	油鏡 Oil Gauge	1	BRASS
9	齒輪 Gear	2	SNCM 21	20	馬達 Motor	1	FC 200
10	軸承 Bearing	4	SUJ 2	21	安全閥 Safty Valve	1	FC 200
11	油封 Oil Seal	2	NBR				

※可依特殊材質指定設計製作

# 外型尺寸圖 Dimensions



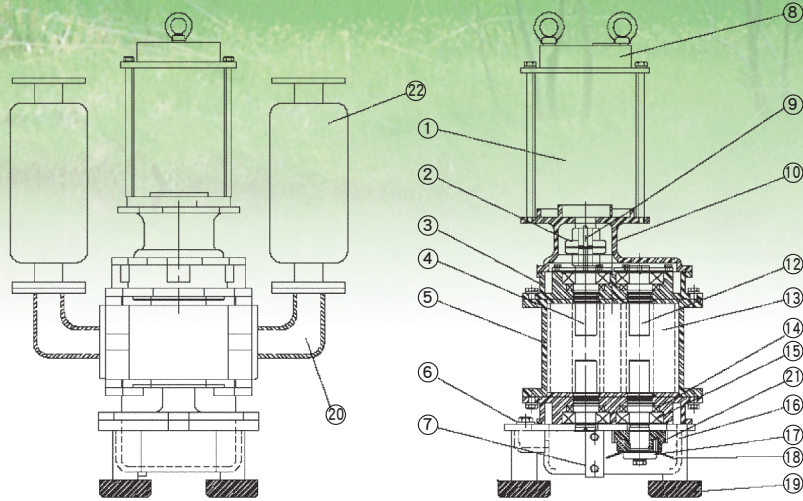
外型尺寸圖 Outside Dimensions (Unit: mm)

型號 Model	HP	A	A1	B	C	C1	D	E	F	重量 Weight (kg)
TV-50	2	430	210	425	288	285	820	765	778	125
TV-50A	3	430	210	425	308	320	834	765	778	145
TV-50A	5	430	210	425	308	320	834	765	778	150
TV-65	5	430	215	425	363	355	952	780	778	160
TV-80	7.5	572	225	542	330	385	972	780	780	290
TV-80	10	572	225	542	330	385	1018	780	780	300
TV-100	10	605	320	542	400	445	1080	840	780	315
TV-100	15	605	320	542	400	445	1118	840	780	370
TV-125	15	768	320	681	385	495	1148	1470	1385	570
TV-125	20	768	320	681	385	495	1192	1470	1385	595
TV-150	20	784	370	681	450	630	1272	1495	1390	625
TV-150	25	784	370	681	450	630	1409	1495	1390	690
TV-150	30	784	370	681	450	630	1409	1495	1390	695

※重量為L型配置含附件及馬達之重量 Weight for LType with Accessories and Motor.

# 沉水式魯氏鼓風機結構圖

## Structural Diagram for the Submersible Blower



### 沉水式魯氏鼓風機材質表 Material Chart of Vertical Roots Blower

編號 No.	名稱 Name	數量 Qty	材質 Material	編號 No.	名稱 Name	數量 Qty	材質 Material
1	馬達外殼 Casing of Motor	1	SUS304	12	葉輪 Rotor	2	FC250
2	聯軸器 Coupling	1	FCD500	13	TC油封 TC Oil Seal	2	NBR
3	軸承座 Bearing Base	2	FC250	14	軸承 Bearing	4	SUJ2
4	主動軸 Drive Shaft	1	S45C	15	扣環 "S" Ring	2	SK7
5	本體 Main Body	1	FC250	16	齒輪油箱 Gear Box	1	FC250
6	入油栓塞 Lubrication Plug	1	SS400	17	墊圈 Washer	2	S45C
7	洩油栓塞 Oil Drain Plug	1	SS400	18	甩油片 Oil Splasher	1	SS400
8	馬達蓋 Motor Cover	1	NBRJ	19	防震墊片 Vibration Cushion	4	SS400
9	鍵 Key	1	S45C	20	彎管接頭 Pipe Flange	2	FC250
10	連接座 Connecting Base	1	FC250	21	齒輪 Gear	2	SNCM21
11	被動軸 Driven Shaft	1	SCM440	22	消音器 Silencer	2	SS400

※可依特殊材質指定設計製作

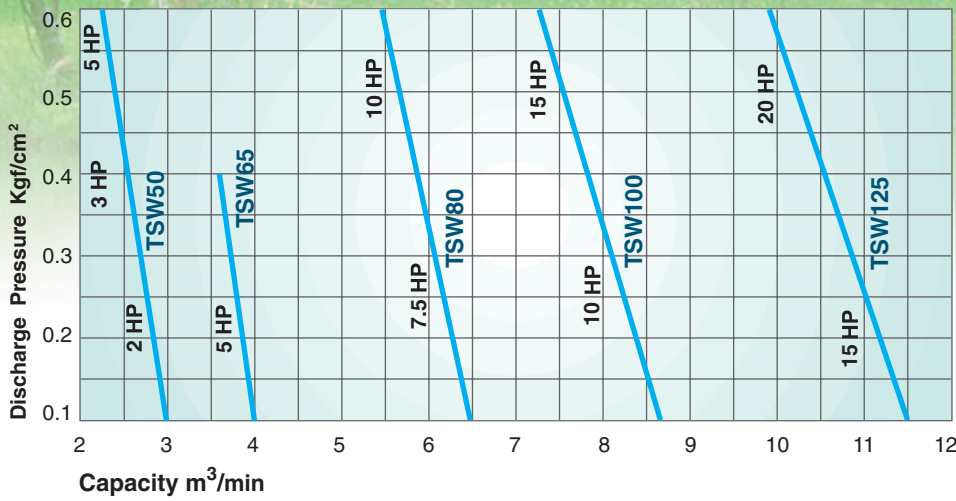
### TSW系列沉水式魯氏鼓風機性能表 Function Table for the TSW Series Submersible Blower

機型 Model	口徑 Bore	馬力 Power HP	壓力 Kgf/cm <sup>2</sup> , 風量 m <sup>3</sup> /min Pressure kgf/cm <sup>2</sup> , Capacity m <sup>3</sup> /min												重量 Weight (kg)	
			50Hz						60Hz							
			0.1	0.2	0.3	0.4	0.5	0.6	0.1	0.2	0.3	0.4	0.5	0.6		
<b>TSW50</b>	2"	2	2.94	2.84	2.74					3.04	2.94	2.83				115
<b>TSW50</b>	2"	3	2.94	2.84	2.74	2.64	2.53			3.04	2.94	2.83	2.73	2.62		
<b>TSW50</b>	2"	5	2.94	2.84	2.74	2.64	2.53	2.44		3.04	2.94	2.83	2.73	2.62	2.52	
<b>TSW65</b>	2.5"	5	3.99	3.85	3.71	3.56				4.09	3.95	3.75	3.59			130
<b>TSW80</b>	3"	7.5	6.47	6.27	6.07	5.87				6.59	6.39	6.19	5.99			210
<b>TSW80</b>	3"	10	6.47	6.27	6.07	5.87	5.68	5.48		6.59	6.39	6.19	5.99	5.81	5.62	
<b>TSW100</b>	4"	10	8.66	8.36	8.07	7.79				8.75	8.46	8.17	7.89			280
<b>TSW100</b>	4"	15	8.66	8.36	8.07	7.79	7.50	7.22		8.75	8.46	8.17	7.89	7.61	7.34	
<b>TSW125</b>	5"	15	12.44	12.22	11.89	11.45				12.99	12.66	12.33	12.01			400
<b>TSW125</b>	5"	20	12.44	12.22	11.89	11.45	11.12	10.79		12.99	12.66	12.33	12.01	11.67	11.34	

12 ※ 重量不含馬達 Weight without motor

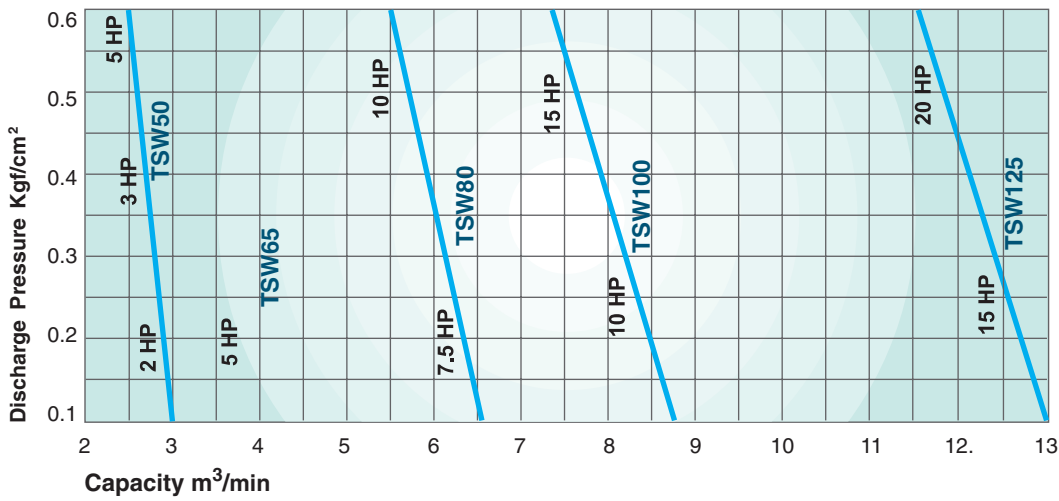
性能曲線圖 Performance-Curves

50Hz

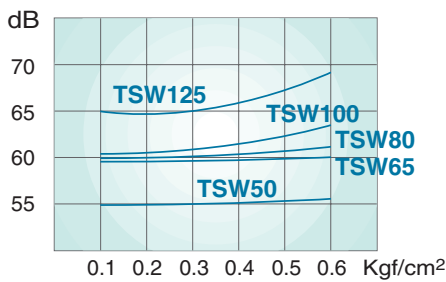


性能曲線圖 Performance-Curves

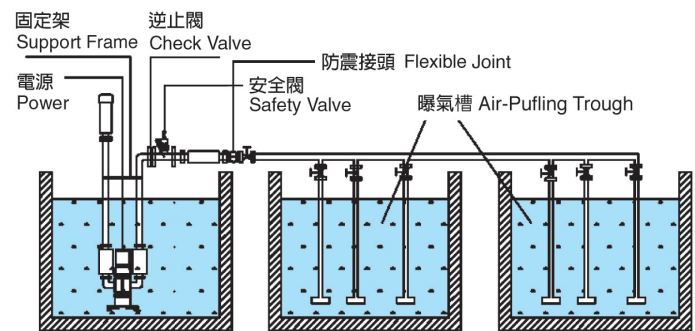
60Hz



噪音值 Noise Levels



安裝示意圖 Installation Diagram



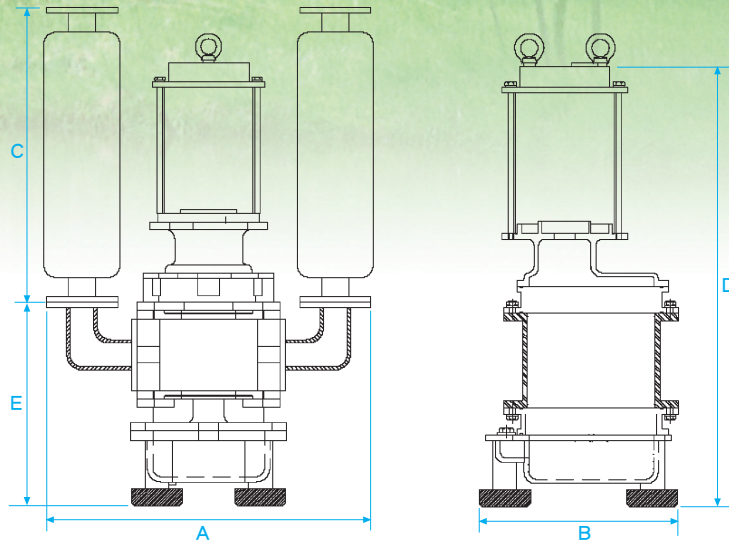
裝置要點

1. 用纜索或鍊條裝置機台，降於槽底並安置於基面上（不需使用固定螺栓）。
2. 不可將繩索鍊條拉緊，其尾端固定於掛鉤上。
3. 吸進及排出之管路，請用固定架固定，以防止鬆動。
4. 為方便裝置及管理，故需吊架及吊架孔，使用時插入吊架孔，不用時移開。
5. 開始運轉時，安全閥全開再調整至使用之壓力。

Installation

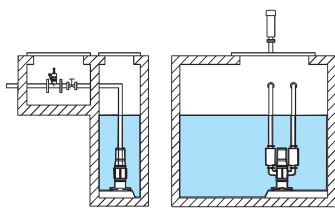
1. Lower the body into the trough bottom with the chain.
2. Don't tighten the chain; fix its end to the hook.
3. Fix the inlet and outlet pipes with pipe clips instead of loosening.
4. To remove easily, keep a hook with a hole for use.
5. To start, keep the safety valve to its fullest then adjust.

# 外型尺寸圖 Dimensions



型號 Model	馬力 HP	A	B	C	D	E
TSW 50	2	650	340	765	775	360
TSW 50	3	650	340	765	775	360
TSW 50	5	650	340	765	775	360
TSW 65	5	675	340	780	835	390
TSW 80	7.5	775	425	780	870	420
TSW 80	10	775	425	780	870	420
TSW 100	10	880	425	840	870	500
TSW 100	15	880	425	840	870	500
TSW 125	15	955	425	1470	1090	560
TSW 125	20	955	425	1470	1090	560

## 可使用之場所 Where to use



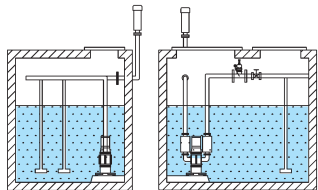
### 放流槽 消泡槽 鼓風槽

優點：1. 裝置淺、檢修容易。2. 換油可於放水後於槽內進行。  
 注意：1. 必需保持最低水位。2. 水溫需保持於 32 °C 以下。

### Passage trough, Foam-removing trough, Blow trough

Advantage: 1. Shallow water installation easy for maintenance.  
 2. The oil change can be easily done in the trough after the water is out.

Caution: 1. Must keep the minimum water level.  
 2. Must keep the water temp below 32 °C .



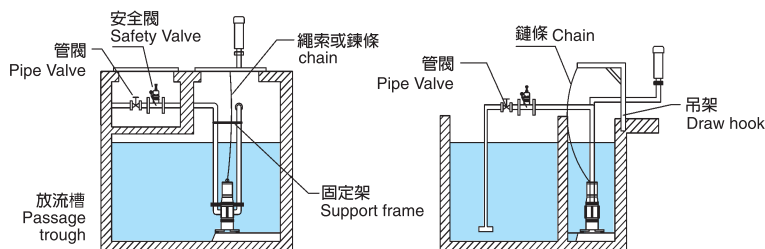
### 曝氣槽

優點：1. 配管短、裝置易。2. 不需要鼓風機裝置場所。  
 注意：1. 裝置不要妨害旋迴流之位置。2. 汽泡不要直接衝刺到鼓風機。

### Air-puffing trough

Advantage: 1. Easy assembly parts.  
 2. Doesn't require a similar place next to the blower for installation.

Caution: 1. During installation, keep away from the return current.  
 2. Bubbles should not enter the blower.



# 環形鼓風機 Ring Blowers



## 特點：

小型/重量輕/高風壓  
前頃式葉片設計，體積小、質量輕且較有高壓力之產生。

## 低噪音

新設計，能消除切風時產生之高頻及特殊之消音材質，大幅降低噪音比。

## 低震動

葉片均經過電腦平衡校正與高精密的機械加工，使震動降到最低。

## Features:

### Low noise and vibration

Dynamic balancing minimizes vibration.

### Dust-proofed shaft seal

Protects bearings from Contaminated air stream and possible foreign particle damage.

### High reliability

Directly connected motor shaft-impeller provides reliable, long term performance. No gears, belts, motor brushes or sliding blades to require periodic maintenance.

### Space-efficient design

Unique design results in substantial airflows at moderate pressures in minimum space and weight.

### Versatility

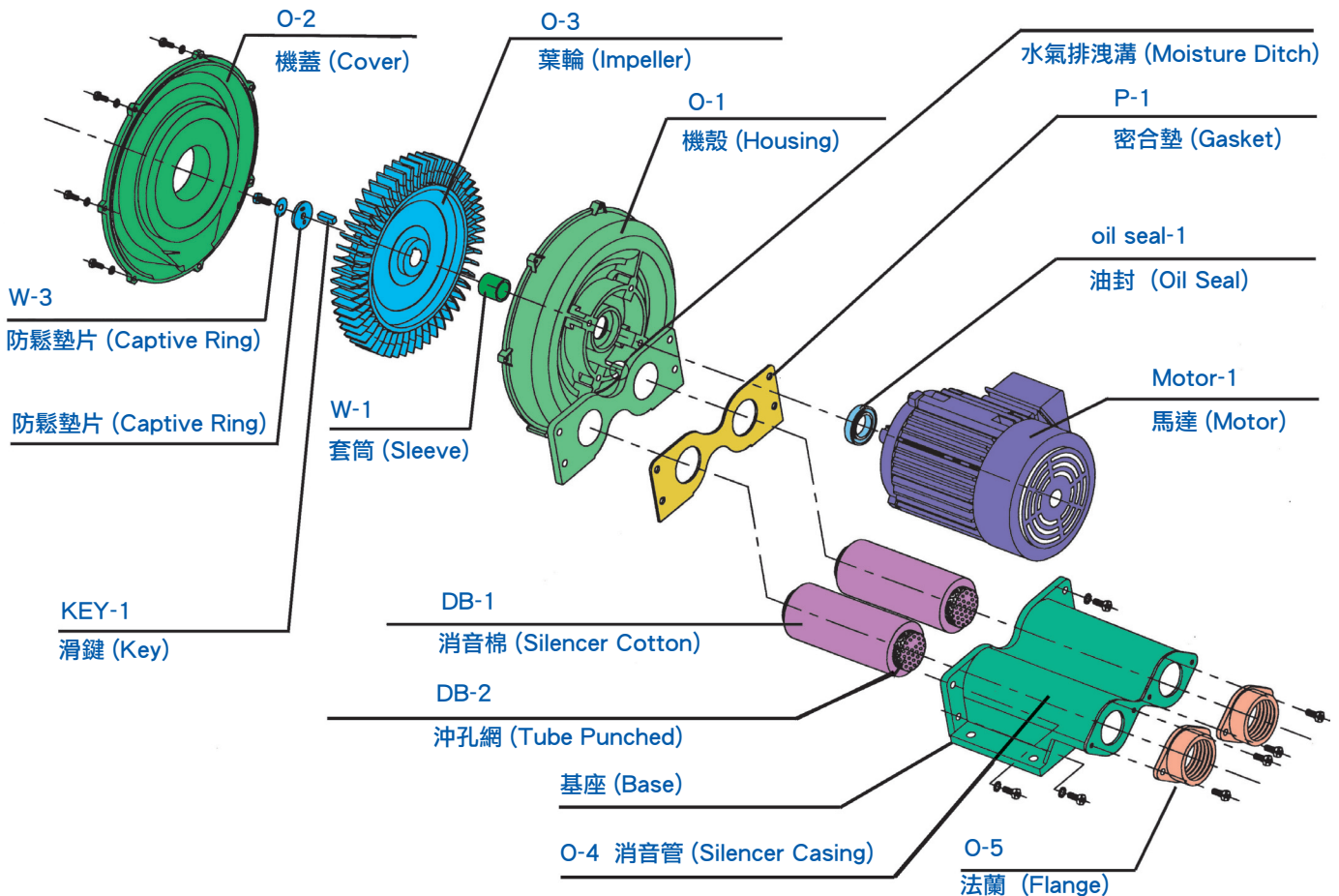
Easily throttled and changed from pressure to suction operation. May be mounted in a variety of fashion.

### Stable airflow

Centrifugal compressor design delivers smooth, stable airflow with no pulsations.

### High-pressure airflow

Produces continuous high-pressure airflow. The Ring Blower is ideally suited to many industrial applications.



## 用途：

- ❖ 粉粒體輸送
- ❖ 紡織纖維集塵
- ❖ 裁紙（布）機氣墊
- ❖ 污水處理曝氣
- ❖ 窯業、礦業空氣
- ❖ 重油噴燃
- ❖ 造紙紙漿脫水
- ❖ 無梭織布機專用
- ❖ 玻璃工業及冰廠空氣泵
- ❖ 隧道工程壓送空氣
- ❖ 水產養殖氧氣供給

## Applications:

- ❖ Grain Elevators
- ❖ Textile Fiber Collections
- ❖ Paper Industry
- ❖ Sewage Treatments
- ❖ Cement Manufacturing
- ❖ Diesel Burning
- ❖ Pulp Industry
- ❖ Glass Manufacturing
- ❖ Ice Manufacturing
- ❖ Tunnel Ventilation
- ❖ Fishery Industry



TS-018



TS-075



TS-550

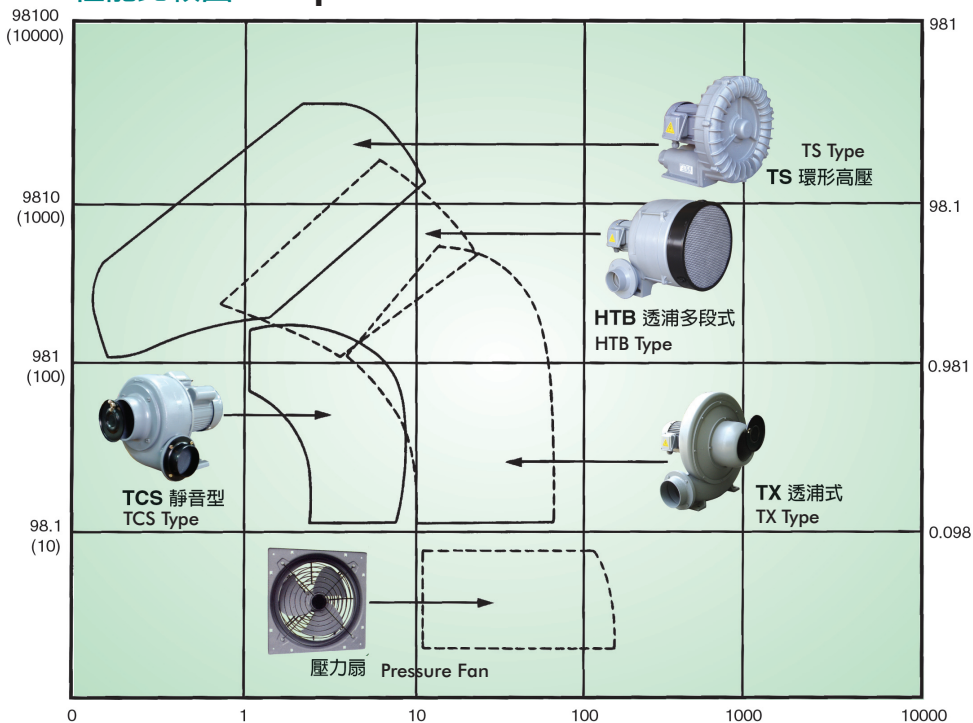


TS-1015

規格性能表 Specifications

型式 Type	相數 Phase	頻率 Frequency Hz	輸出 功率 Power KW	輸入 電壓 Voltage V	滿載 電流 Current A	最大靜壓 (吐出) Pressure(max) mm H <sub>2</sub> O	最大風量 (吐出) Air Flow(max) m <sup>3</sup> /min	出入 口徑 In/Put Let	噪音 Noise Level dB	重量 Weight kgs	庫存 區分 Store	
標準形單相 Standard of Single Phase	<b>TS-018S</b>	1∅	50/60	0.18	110/220	2.4/1.2	500/700	0.6/0.8	PF 1"	60/65	9	V
	<b>TS-037S</b>	1∅	50/60	0.37	110/220	5/2.5	1000/1200	1.3/1.5	PF 1 1/4"	65/70	15	V
	<b>TS-075S</b>	1∅	50/60	0.74	110/220	14/7	1600/1800	2.4/2.6	PF 1 1/2"	67/72	20	V
	<b>TS-150S</b>	1∅	50/60	1.5	110/220	30/15	2000/2500	3.2/4.5	PF 2"	70/75	35	V
	<b>TS-220S</b>	1∅	50/60	2.2	110/220	44/22	2500/2800	5/6.2	PF 2"	70/75	40	
標準形三相 Standard of Three Phase	<b>TS-018</b>	3∅	50/60	0.18	220/380	1.2	500/700	0.6/0.8	PF 1"	60/65	9	V
	<b>TS-037</b>	3∅	50/60	0.37	220/380	1.8	1000/1200	1.3/1.5	PF 1 1/4"	65/70	15	V
	<b>TS-075</b>	3∅	50/60	0.74	220/380	3	1600/1800	2/2.2	PF 1 1/2"	67/72	20	V
	<b>TS-150</b>	3∅	50/60	1.5	220/380	5.4	2000/2500	3.2/4.5	PF 2"	70/75	30	V
	<b>TS-220</b>	3∅	50/60	2.2	220/380	8	2500/2800	5/6.2	PF 2"	70/75	35	V
	<b>TS-370</b>	3∅	50/60	3.7	220/380	13	2800/3500	7/8.3	PF 2"	77/78	55	V
	<b>TS-550</b>	3∅	50/60	5.5	220/380	19	2600/3200	7.5/9.5	PF 2 1/2"	80/85	85	V
	<b>TS-750</b>	3∅	50/60	7.5	220/380	24	2900/3400	9/11	PF 2 1/2"	80/85	95	V
	<b>TS-1011</b>	3∅	50/60	11	220/380	36	2500/3000	20/24	PF 4"	82/87	175	
	<b>TS-1015</b>	3∅	50/60	15	220/380	47	3000/3500	25/28	PF 4"	82/87	182	

性能比較圖 Comparison with Function

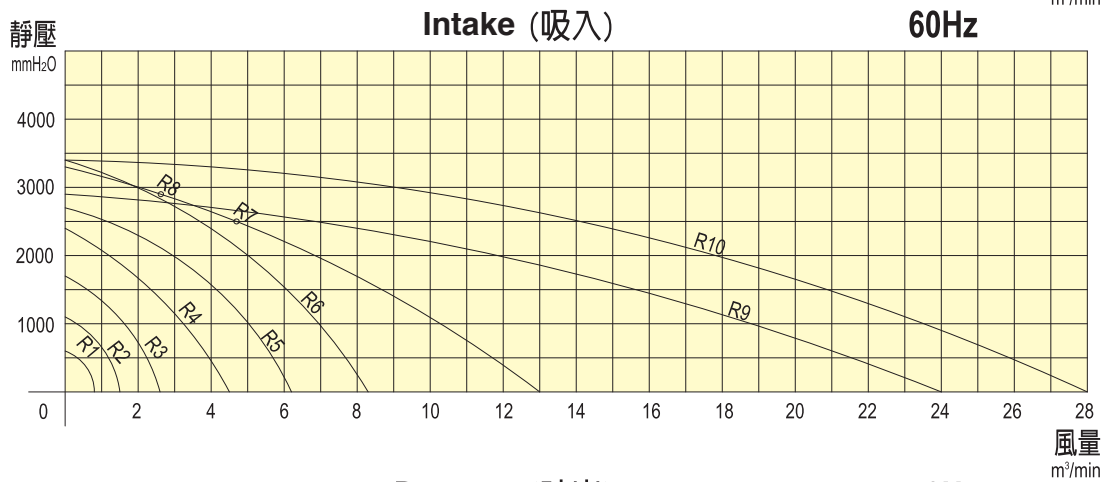
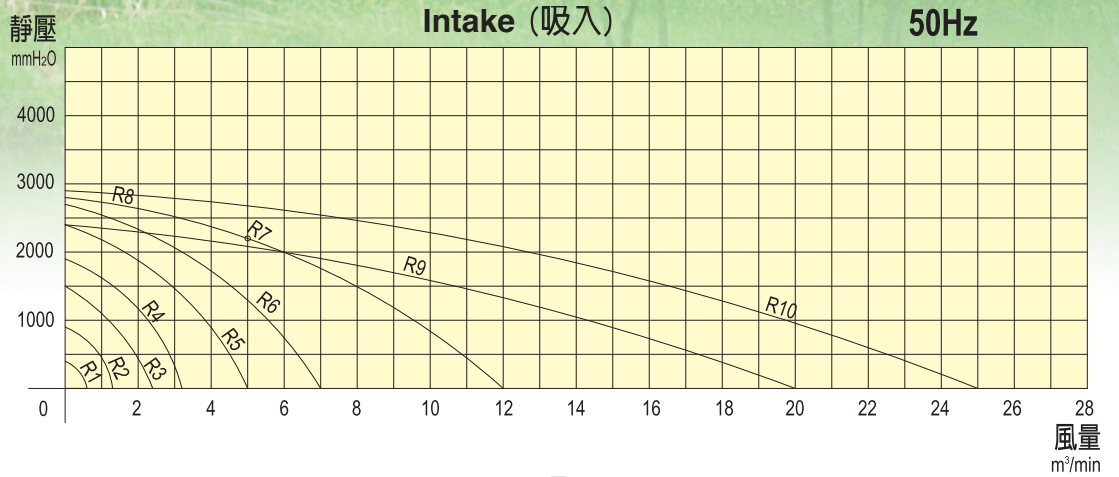




# 性能曲線圖 performance Curve

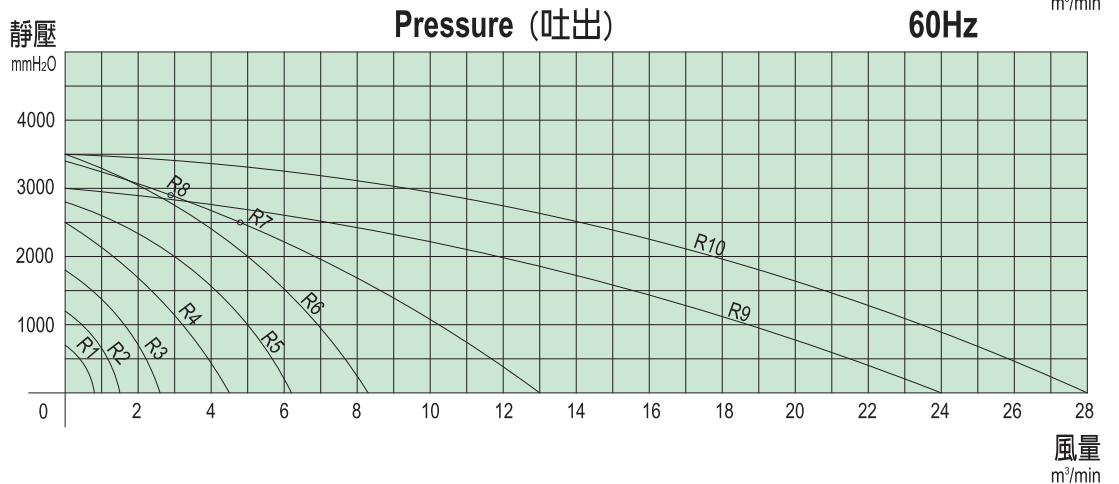
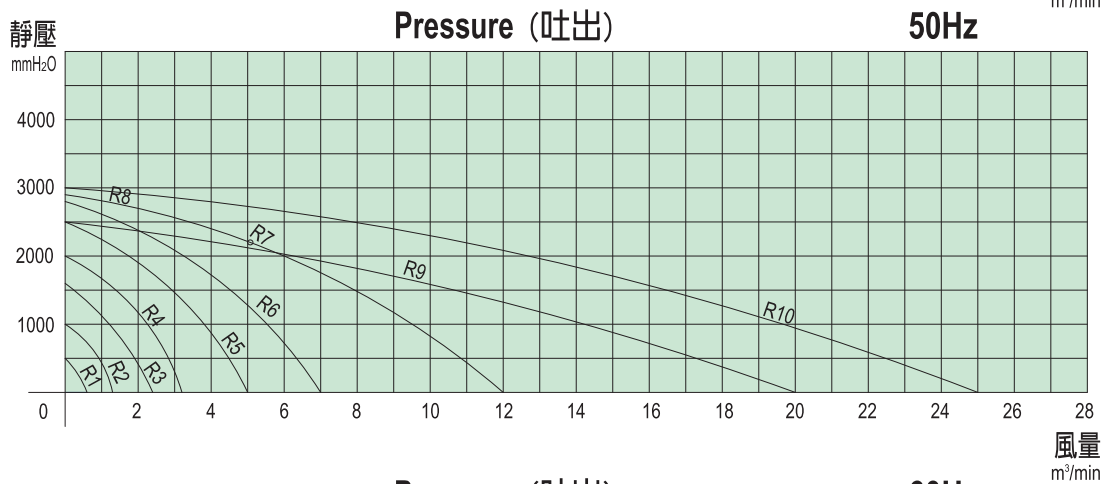


**TS-220**



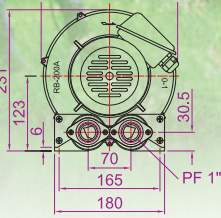
品號	品名
R1	TS-018S
R2	TS-037S
R3	TS-075S
R4	TS-150
R5	TS-220
R6	TS-370
R7	TS-550
R8	TS-750
R9	TS-1011
R10	TS-1015

標準型 Standard

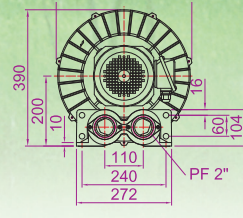
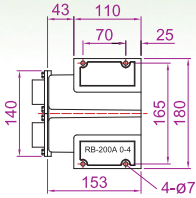
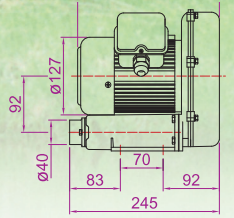


**TS-1011**

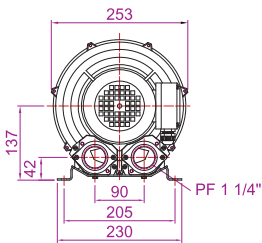
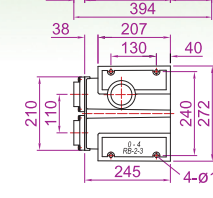
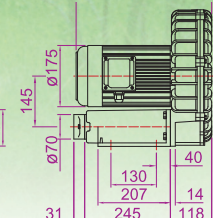
# 外型尺寸圖 Outside Dimensions



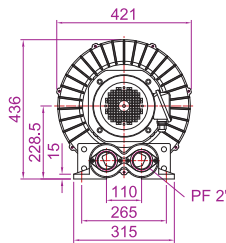
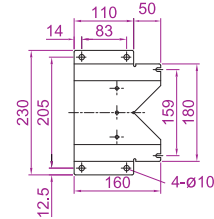
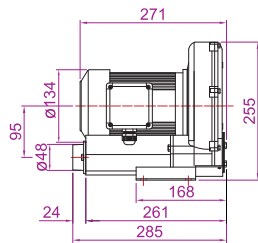
**TS-018**



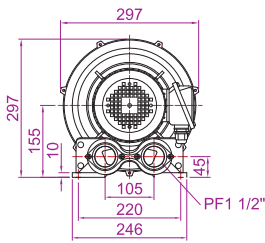
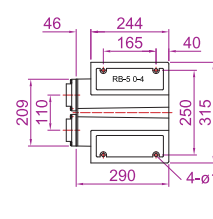
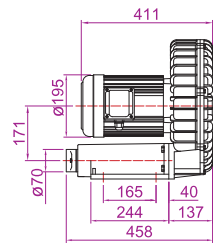
**TS-220**



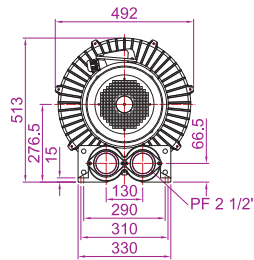
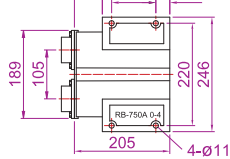
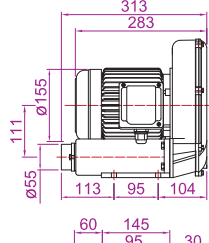
**TS-037**



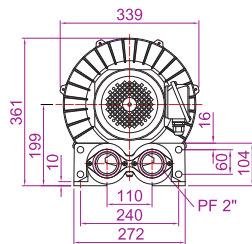
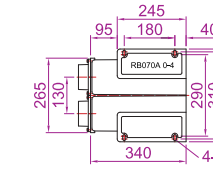
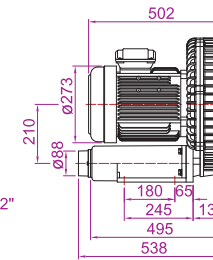
**TS-370**



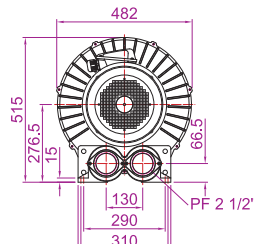
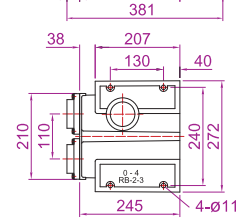
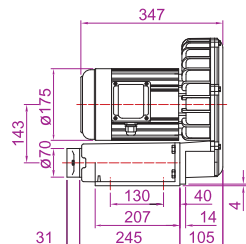
**TS-075**



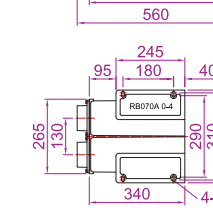
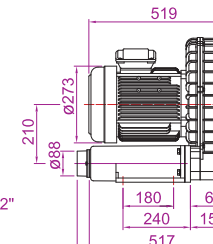
**TS-550(750)**



**TS-150**



**TS-1011**



# 散氣盤 Diffuser

## 規格 Specifications

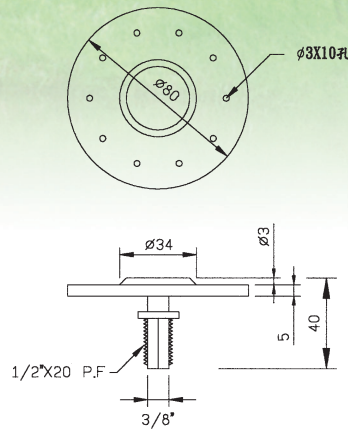
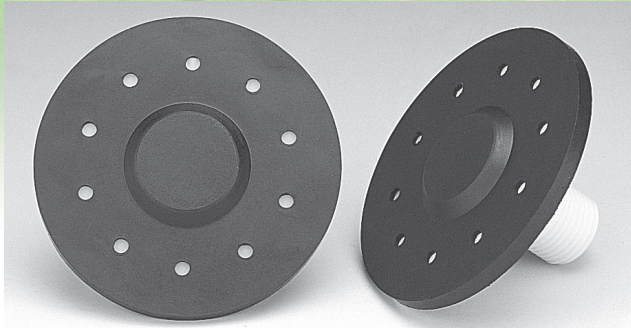
- ❖ 4/8" 牙口, 3/8" 入氣口
- ❖ 直徑 Diameter : 80 mm
- ❖ 高度 Height : 40 mm
- ❖ 通氣量 Aeration : 0.08 ~ 0.10 m<sup>3</sup>/min

## 特點 Feature

- ❖ 配合國內現成 4/8" 龍頭, 安裝容易
- ❖ 構造堅固耐用
- ❖ 溶氧效率高·耐腐蝕性
- ❖ 有逆止作用·永不阻塞

## 構造材質 Material

- ❖ 擴散蓋 : Neoprene Rubber 耐酸鹼
- ❖ 擴散基座 : ABS



## 可雙向安裝之優良散氣裝置組件 Both Side of Best Installation

### 逆流時可完全關閉 Close Entirely When Backflow

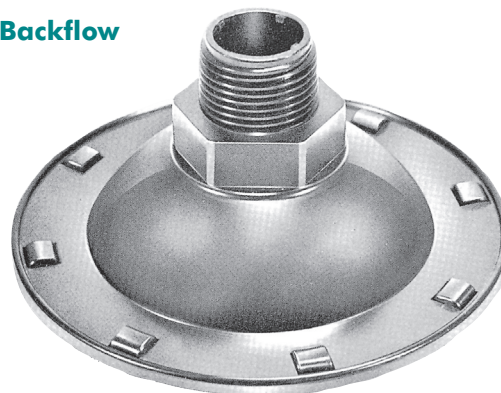
利用水壓與閥材之特殊構造, 當散氣中止時, 其特殊構造可防止污水逆流之產生。

### 壓力損失少 Less Pressure

閥本體因具有伸縮性, 應通風量之增減, 使噴氣口順應調整, 故壓力損失少, 其變化異常亦少。

### 連結點之配管口徑 Coupling Gauge

PT 1" 螺牙



### 高耐蝕性 壓力損失少

Less Pressure and High Corrosion Resisting

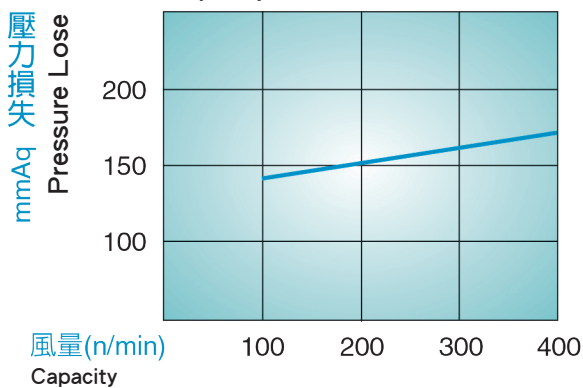
### 特別優良的耐蝕性 Special Fine Corrosion

本體採用高品質ABS複合材質, 其耐溫性、軟化溫度點, 非一般泛用ABS塑材可比較。

閥門車體將用高級合成樹脂、耐候性、耐油性、耐蝕性、包括老化性、低變形性之特點, 其使用期效約3倍於一般橡膠類或PVC類之產品。

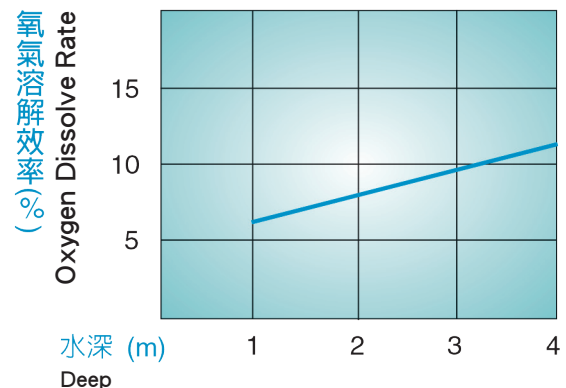
### 風量與壓力損失的關係

Capacity and Pressure Lose's relationship



### 水深與氧氣溶解效率

Deep and Oxygen Dissolve Rate



### 材質 Material

本體部 : ABS樹脂

瓣 部 : 熱可塑性合成樹脂

標準通風量 : 100/min-450/min

重 量 : 130g

安 裝 方 式 : 向下或向上皆可

安 裝 接 合 法 : PT 1" 螺 牙

# 高效能空氣擴散器 High Efficiently Air Diffuser



## 設計獨特：Unique Design

特殊止水隔膜設計，在任何狀況下均可防止水流入空氣管線中。

## 超高功能：Superior Function

低空氣使用量（100公升/分/個）、低壓降值及高氧氣溶解效率。

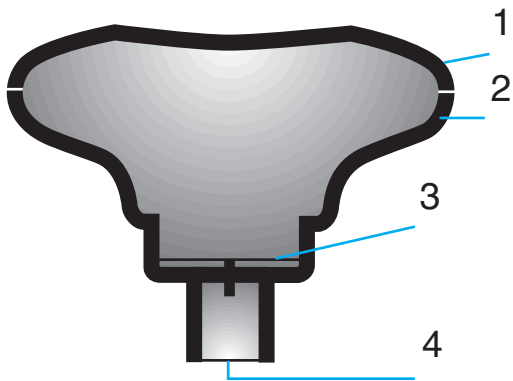
## 造型優美：Delicacy Model

圓弧外型，水阻極微，有極佳的散氣均勻性，能有效擾動周圍流體，達到拌合及傳氧效果。

## 好裝耐用：Easy Installation and Durable

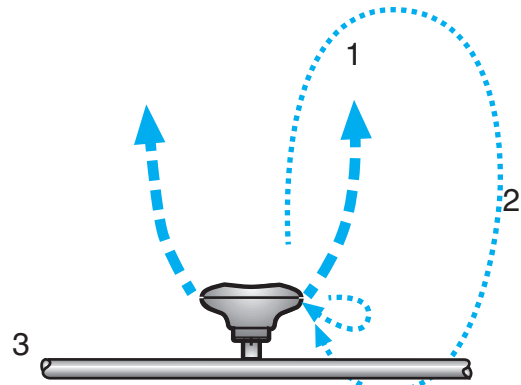
安裝容易，抗酸鹼，使用壽命長。

### 剖面圖 Section



- |          |          |
|----------|----------|
| 1. 氣泡分散板 | 3. 止水隔膜  |
| 2. 擴散器本體 | 4. 空氣吸入口 |

### 拌合示意圖 Mix Chart

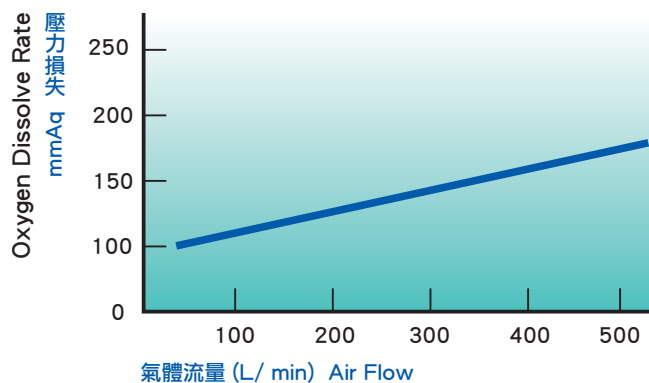
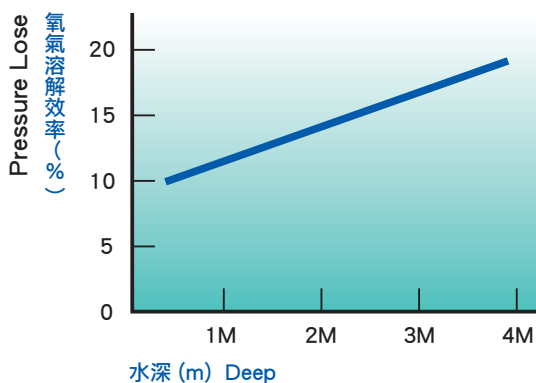


- |         |         |
|---------|---------|
| 1. 氣泡   | 3. 空氣管線 |
| 2. 循環水流 |         |

### 測試曲線圖 Test Curve

測試溫度 Test Temperature : 20°C

氣體流量 Air Flow : 300/min



### 用途 Application

廢水處理調合池、中和池、快混池、凝集池、曝氣池、大型養殖場及其他各種空氣擴散拌合用途。

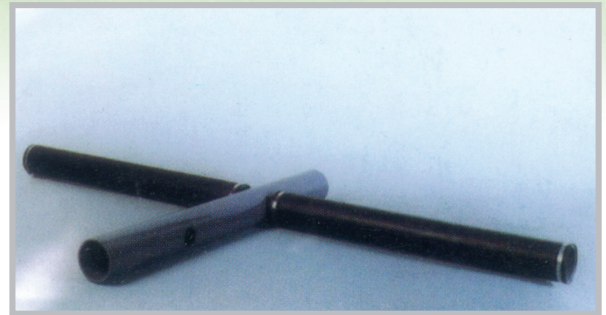
### 規格 Specification

- ❖ 材 質.....ABS 樹脂
- ❖ 連接方式.....6 / 8" 牙管
- ❖ 理想裝置範圍.....60-100cm / 個
- ❖ 裝置方式.....向上或向下

# 細微氣泡曝氣管 Envi-Bubble Tube

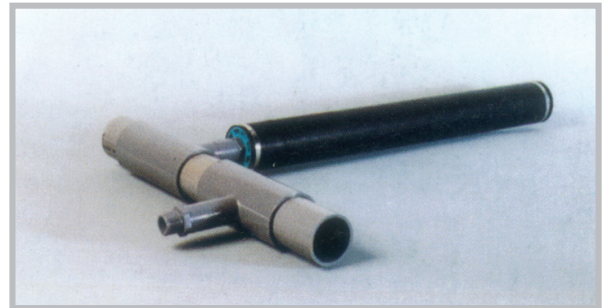
## 結構 Structure

- 使用高級人造複合生化工程橡膠EPDM-NEWPLAN精練而成，可有效抑制曝氣膜的老化，延長使用壽命  
Adopted the EPDM-NEWPLAN to melt. It can restrain the ageing effectively of the membrane, and protract the using life.
- 利用中空設計消除浮力  
Buoyancy elimination with hollow design.
- PVC或ABS成型的空氣入口  
Air inlet with modled infection of PVC or ABS.
- PVC或ABS管的支撐結構  
Supporting frame with PVC or ABS.
- 本體的曝氣膜採不鏽鋼夾具#304或#316固定  
Identity clamp with membrane by stainless steel #304 or #316.
- 曝器膜氣孔採Λ或I字型開縫  
Membrane hole with Λ-shaped or I-shaped slit.



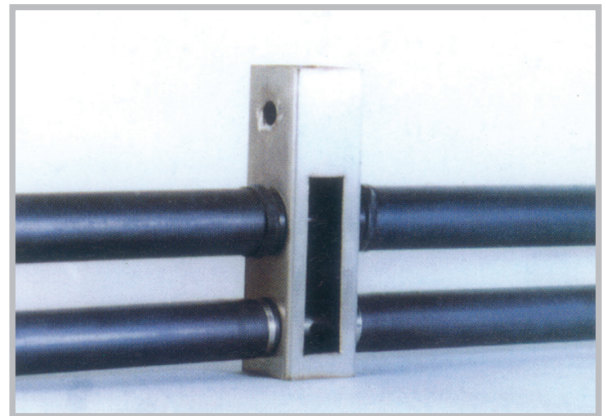
## 優點 Advantage

- 高效率傳遞氧氣  
High oxygen transfer efficiency.
- 有效防止阻塞，具自動清除功能  
High resistance to clogging.
- 有效防止腐蝕  
High resistance to corrosion.
- 廣大的空氣流量範圍  
Wide air flow range.
- 壓力損失低  
Low pressure loss.
- 低能量成本  
Low energy cost.
- 容易安裝  
Easy installation.
- 防止逆流  
Back flow prevention.
- 間些操作能力強  
Intermittent operation capability.
- 消除浮力  
Buoyancy Eliminated.
- EPDM NEWPLAN曝氣膜韌性強  
High EPDM-NEWPLAN membrane tenacity.



## 適用範圍 Suitable range

- 都市廢水處理  
Municipal wastewater treatment.
- 工業廢水處理  
Industrial wastewater treatment.
- 清淨水處理  
Clean water treatment.
- 穩定淤渣  
Sludge stabilization.
- 廢水臭氧擴散  
Wastewater ozone diffusion.
- 魚池曝氣  
Aeration of fish ponds.
- 河川和湖泊曝氣  
Aeration of streams and lakes.



## 規格表 Specifications

型號 Model Number	規格 Dimension	操作範圍 (L/min) Flow Range (LPM)	瓣部材質 Membrane	本體部材 Base	固定部件 Hardware
TUBE-300	12.5"x2.5"x3/4" NPT	20~100	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-600	24"x2.5"x3/4" NPT	20~250	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-700T	28"x2.5"x3/4" NPT	40~260	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-1300T	51"x2.5"x3/4" NPT	40~280	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-1000	39"x2.5"x3/4" NPT	40~320	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-1000-30	12.5"x3"x3/4" NPT	20~200	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-1000-60	24"x3"x3/4" NPT	20~300	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316
TUBE-1000-100	39"x3"x3/4" NPT	20~380	EPDM-NEWPLAN	PVC A.B.S.	SUS#304.316

# 高效能膜瓣散氣盤

## High Efficiently Membrane Diffuser

### 結構 Structure

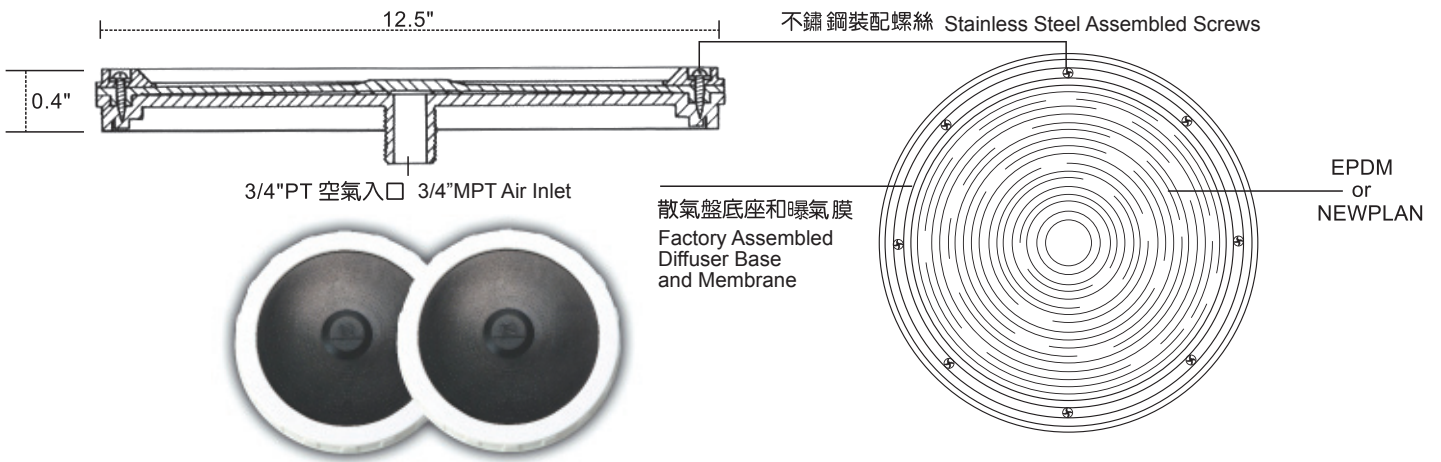
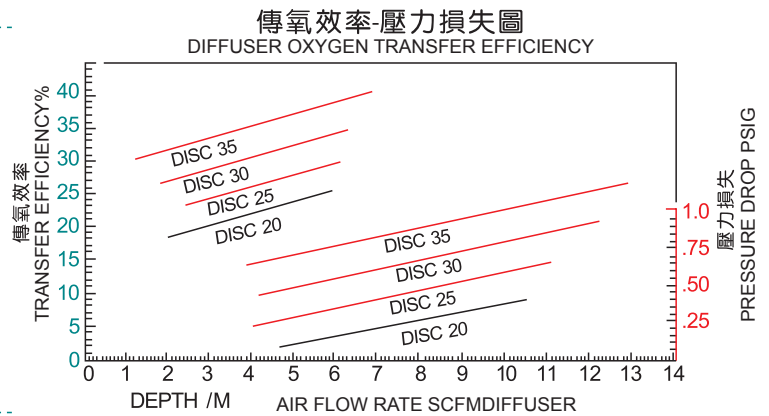
- 瓣部：採高級人造複合生化工程橡膠 (EPDM-NEWPLAN ) 精練而成，可有效抑制曝氣膜的老化，延長使用壽命。  
Membrane: Adopted the EPDM-NEWPLAN to melt. It can restrain the ageing effectively of the membrane, and protract the using life.
- 曝氣孔：採~型穿孔施作能有效防止污水逆流及曝氣時氣泡均小於0.3mm以下。  
Spreading hole: Adopted the ^ shaped for perforating to prevent adverse of waste water effectively and the bubble would be less than 0.3mm during aeration.
- 本體部：採用NYLON+A.B.S. 強化塑鋼成型，可有效防止變形。  
Base: Adopted the NYLON=A.B.S. Produced by hard plastics. It could prevent it out of shape.

### 優點 Advantage

- 超凡的傳氣效果  
High oxygen transfer efficiency
- 壓力損失小  
Low pressure loss
- 耐酸鹼  
High resistance to corrosion
- 具自動清洗功能  
Self cleaning operation
- 防止污水逆流  
Back flow prevention
- 安裝容易  
Easy installation
- 間歇操作性能強  
Intermittent operation capability
- 曝氣均勻  
Water-stirring effect.
- 操作風量小  
Low flow to operation.

### 適用範圍 Suitable range

- 污水處理氧化接觸池  
Place of dealing irth waste water.
- 淨水活化  
Active the clean water.
- 湖泊、河川、提高溶氧  
Promote the oxygen in lake and river.
- 養殖池提高溶氧量  
Promote the oxyan in lake and river
- 穩定MLSS  
Stable the MLSS.



### 規格表 Specifications

型號 Model Number	規格 Dimension	操作範圍 (L/min) Flow Range (LPM)	瓣部材質 Membrane	本體部材 Base	固定部件 Hardware
Disc-200	8"x2.3"	20~100	EPDM-NEWPLAN	FIBER+A.B.S.	BOLTFIJED
Disc-250	10"x2.3"	20~150	EPDM-NEWPLAN	FIBER+A.B.S.	BOLTFIJED
Disc-300	12.5"x2.3"	20~260	EPDM-NEWPLAN	FIBER+A.B.S.	BOLTFIJED
Disc-350	13.5"x2.3"	20~310	EPDM-NEWPLAN	FIBER+A.B.S.	BOLTFIJED

# 科技研發 與時俱進 開創新局

## Technology, Development, Innovation



**專利—是肯定我們研發的成果及領先業界的榮耀**  
**Patent is to Approve our result and lead the glory**



魯氏鼓風機結構改良



全水冷式鼓風機



直立式鼓風機



無軸封離心泵浦結構改良



無軸封離心泵



全水冷式鼓風機



直立式鼓風機



魯氏鼓風機結構改良



迎賓大廳



嚴謹的測試品管·提供最佳品質



完善的組立生產線



完整的測試品管·提供產品最佳保證



主機庫存區



貨櫃碼頭



CNC電腦加工區



成品出貨區



ISO 9001 2000國際品質認證

專業製造生產鼓風機·產品齊全·並有特殊用途之規格材質  
Specializing in the manufacturing of blowers; wide varieties  
of products; and special order with specific designs.

## 春鼎機械工業股份有限公司

TRUNDEAN MACHINERY CO., LTD.

台灣總公司/工廠：桃園市富國路861巷101號  
Head office / Factory in Taiwan  
No. 101 Lane 861, Fu-Kuo Rd., Taoyuan, Taiwan  
TEL: +886 3 323 8288 FAX: +886 3 323 8959

台南分公司/工廠：台南縣鹽水鎮舊營里舊營1-35號  
Tainan Branch / Factory in Taiwan  
No.1-35 Jiu Ying, Jiu Ying Li, Yan Shui Town, Tai Nan County  
TEL: +886 6 652 9455 FAX: +886 6 652 9520

上海分公司/工廠：上海市嘉定區黃渡鎮錢家村千秋橋路15號  
Shanghai Branch / Factory in China  
No.15 Qian Qiu Qiao Rd, Huang Du Town, Jia Ding District,  
Shanghai, P.R.C.  
TEL: +86 21 5959 8977 FAX: +86 21 5959 7997  
E-mail : trundean@trade.sh.cn

泰國分公司/工廠：Tailand Branch / Factory  
71/90 Sol 13 Chomthong Rd, Chomthong Bangkok 10150 Tailand  
TEL: +66 2 878 1885 FAX: +66 2 878 1887

Http://www.trundean.com.tw  
E-mail: blower@trundean.com.tw

經銷商