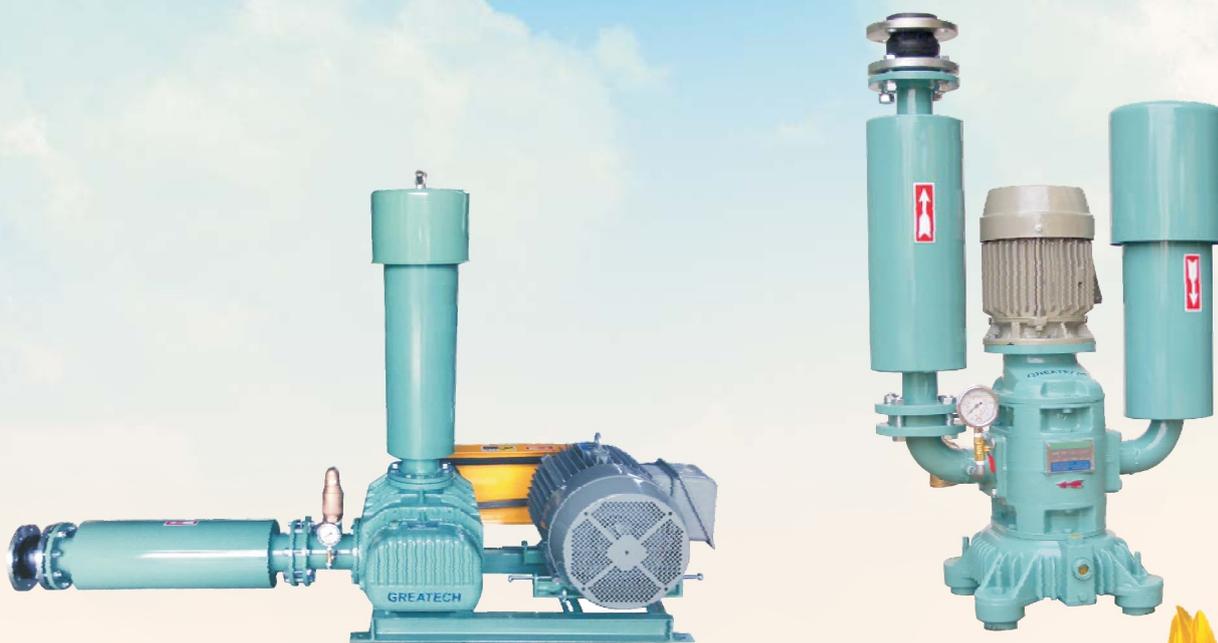


GREATECH ROOTS BLOWER & VACUUM PUMP

廣勝魯氏鼓風機 & 真空泵浦



廣勝工業有限公司
Greatech Machinery Industrial Co., Ltd.



卓越設計 技術創新

GREAT DESIGN

TECHNICAL INNOVATION

節能減碳高效率 - 廣勝魯氏鼓風機

*ENERGY CONSERVATION & HIGH EFFICIENCY
- GREATECH ROOTS BLOWER*

SdB系列

SdB Model

性能

口徑: 25mm~150mm (1"~6")
風量: 0.3~34 m³/min (18~2040 m³/hr)
壓力: 0~6000 mmAq (0~0.6 kgf/cm²)

Performance

Bore Size: 25mm~150mm(1"~6")
Capacity: 0.3~34 m³/min(18~2040 m³/hr)
Pressure: 0~6000 mmAq(0~0.6 kgf/cm²)

特點

三葉魯氏鼓風機
循環氣流、全機冷卻
超低噪音、超低震動
節能省電、高效率
直立設計、省空間
結構堅固、易保養
氣體潔淨、無油汙
直結傳動、免皮帶

Advantage

Tri-Lobe Roots Blower
Air cooled and circulated for whole blower
Operate quietly, Extreme low vibration
Saving electricity and gear oil
Vertical design, Space saving
Strong construction, Easy maintenance
Clean air, Oil free conveying
Coupling driven, Without belt

用途

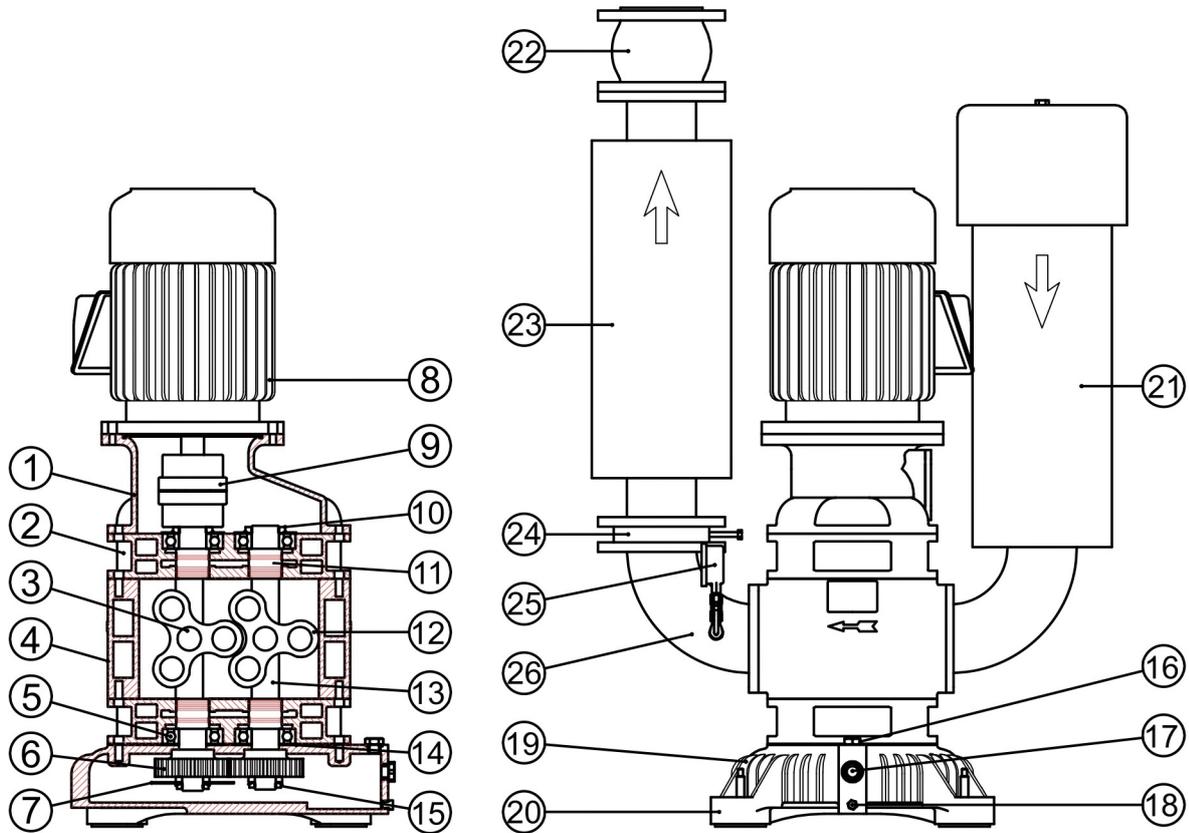
廢水處理、水產養殖、粉粒輸送、
穀類輸送、造紙工業、食品工業、
電鍍、半導體工業、化學工業...等
更適合安裝於醫院、學校、飯店、
住宅區、辦公大樓及其他需要安靜
的場所。

Application

Waste Water Treatment, Aquaculture,
Electroplating Industry, Powder Conveyance,
Grain Transport, Paper production
Food Industry, Semiconductor Industry,
Chemical Industry...etc.
Especially suitable to install in Hospital,
School, Hotel, Residential Area, Office Building,
where need low noise

Circulating Air Cooling Roots Blower

構造圖&材質表 Construction & Material List



No.	Item	Material	No.	Item	Material
1	motor case 馬達座	FC250	14	bearing plate 軸承壓板	SS440
2	bearing case 軸承座	FC250	15	screw nut 螺帽	SS400
3	drive shaft 主動軸	SCM440	16	oil plug 加油塞	S45C
4	cylinder 汽缸	FC250	17	oil gauge 油鏡	S45C
5	bearing 軸承	SUJ2	18	oil drainer 洩油塞	S45C
6	gear 齒輪	SCM415	19	gear oil box 齒輪箱	FC250
7	oil splash 甩油板	SS400	20	vibration isolator 防震腳	NBR
8	motor 馬達		21	suction silencer 入口消音器	SS400
9	coupling 聯軸器	FCD500	22	flexible joint 防震接頭	NBR
10	screw nut 螺帽	SS400	23	discharge silencer 出口消音器	SS400
11	shaft seal 軸封	S45C	24	check valve 逆止閥	FC250
12	rotor 葉輪	FCD500	25	pressure gauge 壓力表	SUS304
13	driven shaft 被動軸	SCM440	26	elbow joint 出口彎頭	SS400

性能表 Performance Table

入口風量及出口壓力 Suction Air & Discharge Pressure

Greatch Circulating Air Cooling Roots Blower												50HZ-4P	
型號 Model	口徑 Bore (mm)	壓力 Pressure (mmAq)				風量 Capacity (m ³ /min)				功率 Power (kW)			
		1000 mmAq		2000 mmAq		3000 mmAq		4000 mmAq		5000 mmAq		6000 mmAq	
		m ³ /min	kW	m ³ /min	kW	m ³ /min	kW	m ³ /min	kW	m ³ /min	kW	m ³ /min	kW
SdB25	25	0.48	0.18	0.37	0.25	0.31	0.31	0.23	0.37	0.18	0.43	0.12	0.49
SdB40	40	0.74	0.42	0.66	0.47	0.60	0.53	0.54	0.61	0.49	0.69	0.44	0.80
SdB45	40	0.96	0.53	0.86	0.66	0.78	0.78	0.70	0.89	0.63	0.99	0.57	1.07
SdB50	50	1.89	0.99	1.77	1.23	1.66	1.38	1.45	1.57	1.32	1.78	1.15	2.00
SdB60	65	2.39	1.33	2.23	1.54	2.09	1.78	1.91	2.07	1.82	2.47	1.75	2.79
SdB65	65	2.76	1.49	2.59	1.72	2.42	2.12	2.27	2.50	2.16	2.84	1.92	3.10
SdB75	80	3.38	1.79	3.18	2.31	3.00	2.67	2.80	3.12	2.62	3.71	2.53	4.25
SdB77	80	3.97	2.24	3.76	2.75	3.58	3.30	3.36	3.91	3.16	4.48	3.02	5.07
SdB80	80	4.52	2.72	4.31	3.23	4.15	3.96	3.94	4.73	3.73	5.28	3.55	5.92
SdB90	100	6.43	3.89	6.04	4.62	5.73	5.46	5.43	6.62	5.17	7.61	4.92	8.73
SdB100	100	8.24	5.54	7.78	6.19	7.37	7.25	7.00	8.18	6.68	9.27	6.40	10.5
SdB110	125	9.98	7.05	9.43	8.25	8.93	10.1	8.48	11.3	8.09	12.4	7.75	13.8
SdB125	125	11.4	7.80	10.8	8.83	10.2	10.7	9.69	12.8	9.24	14.6	8.85	16.2
SdB150	150	19.6	10.5	18.8	12.3	18.1	15.2	17.4	17.5	16.9	20.6	16.4	23.7
SdB160	150	28.0	14.8	26.7	18.1	25.5	22.1	24.4	25.8	23.4	29.2	22.6	33.1

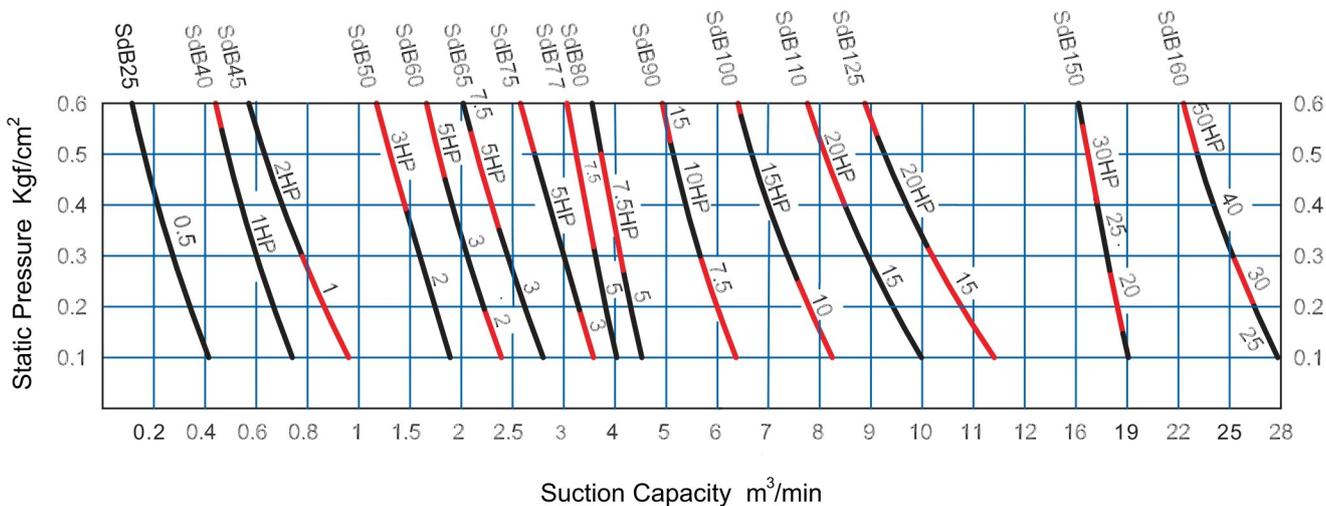
0.37kW=0.5HP, 0.75kW=1HP, 1.5kW=2HP, 2.2kW=3HP, 3.7kW=5HP, 5.5kW=7.5HP, 7.5kW=10HP
11kW=15HP, 15kW=20HP, 18.5kW=25HP, 22kW=30HP, 30kW=40HP, 37kW=50HP, 45kW=60HP

Greatch Circulating Air Cooling Roots Blower												60HZ-4P	
型號 Model	口徑 Bore (mm)	壓力 Pressure (mmAq)				風量 Capacity (m ³ /min)				功率 Power (kW)			
		1000 mmAq		2000 mmAq		3000 mmAq		4000 mmAq		5000 mmAq		6000 mmAq	
		m ³ /min	kW	m ³ /min	kW	m ³ /min	kW	m ³ /min	kW	m ³ /min	kW	m ³ /min	kW
SdB25	25	0.60	0.25	0.52	0.30	0.44	0.37	0.39	0.45	0.34	0.52	0.30	0.60
SdB40	40	1.05	0.49	0.94	0.56	0.83	0.65	0.75	0.75	0.67	0.87	0.62	1.01
SdB45	40	1.20	0.65	1.09	0.83	0.98	0.98	0.89	1.12	0.80	1.19	0.73	1.28
SdB50	50	2.23	1.12	2.10	1.39	1.97	1.55	1.88	1.79	1.81	1.94	1.72	2.14
SdB60	65	2.74	1.71	2.52	1.95	2.42	2.26	2.33	2.57	2.27	2.94	2.22	3.35
SdB65	65	3.15	1.86	2.92	2.12	2.76	2.46	2.64	2.83	2.55	3.20	2.47	3.60
SdB75	80	4.47	2.47	4.23	2.85	3.99	3.28	3.76	3.67	3.53	4.26	3.31	4.82
SdB77	80	5.33	2.89	5.07	3.38	4.81	4.03	4.57	4.62	4.33	5.25	4.11	5.83
SdB80	80	6.17	3.36	5.90	3.97	5.65	4.83	5.42	5.64	5.18	6.30	4.96	6.89
SdB90	100	8.39	4.62	7.98	5.82	7.62	6.72	7.31	7.93	7.06	9.01	6.85	10.7
SdB100	100	11.7	6.33	11.2	7.01	10.7	8.29	10.3	9.38	9.90	11.1	9.60	12.4
SdB110	125	13.9	8.08	13.2	9.25	12.6	11.2	12.1	12.6	11.7	14.1	11.3	15.7
SdB125	125	16.3	9.12	15.5	10.7	14.7	13.2	14.1	14.8	13.5	16.2	13.0	17.8
SdB150	150	24.3	11.9	23.5	14.7	22.9	18.0	22.2	21.5	21.6	24.3	21.0	27.6
SdB160	150	33.9	15.7	32.7	18.9	31.6	23.4	30.6	27.8	29.5	32.0	28.5	36.2

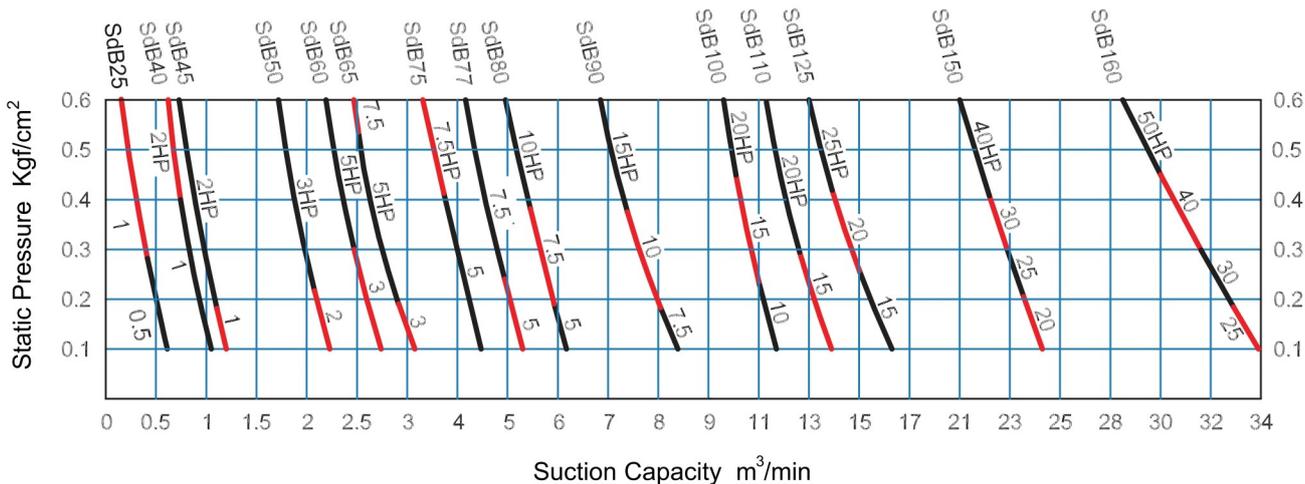
Circulating Air Cooling Roots Blower

性能曲線 Performance Curve

50HZ-4P

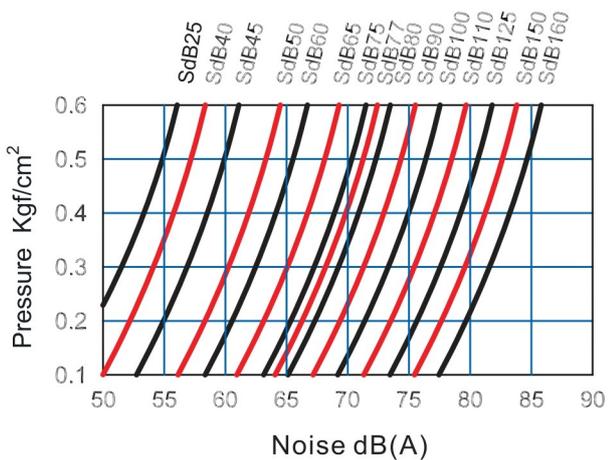


60HZ-4P

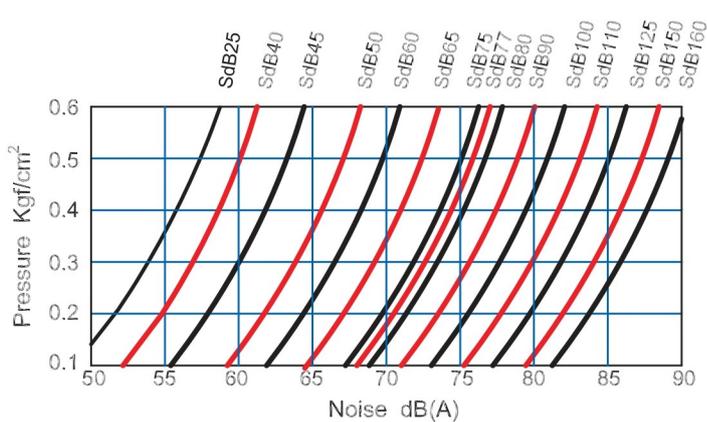


噪音曲線 Noise Curve

50HZ-4P



60HZ-4P



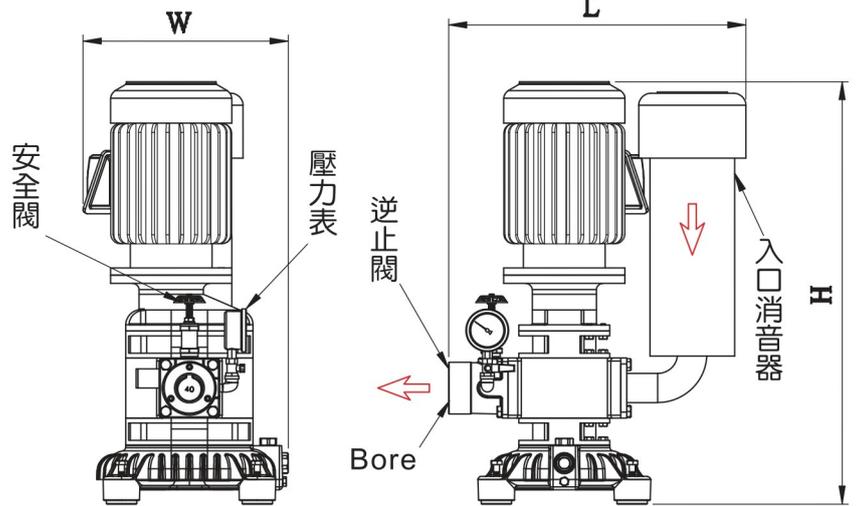
外型尺寸 Outline Dimension



外型尺寸

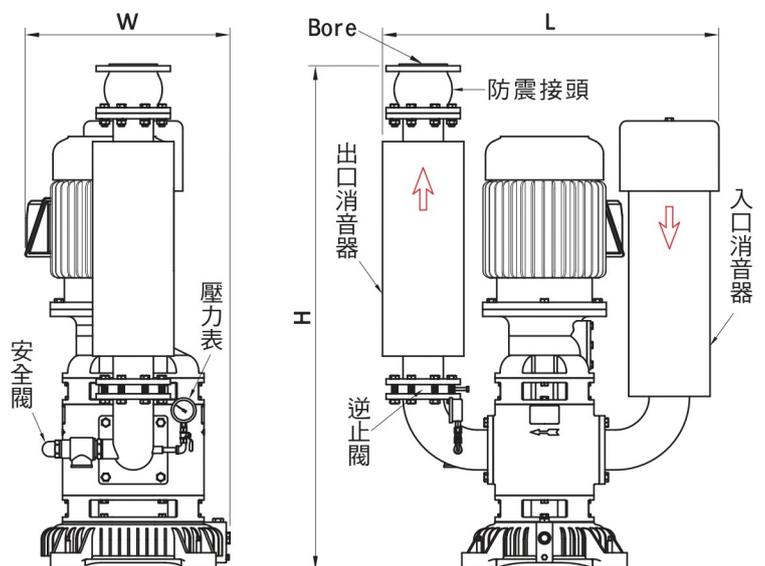
Unit=mm

型號 Model	長 L	寬 W	高 H	口徑 Bore
SdB25	478	316	607	25
SdB40	491	339	711	40
SdB45	491	339	731	40



Unit=mm

型號 Model	長 L	寬 W	高 H	口徑 Bore
SdB40	580	340	845	40
SdB45	580	340	860	40
SdB50	651	420	877	50
SdB60	700	428	929	65
SdB65	729	450	920	65
SdB75	833	467	1229	80
SdB77	833	467	1251	80
SdB80	840	460	1273	80
SdB90	949	543	1388	100
SdB100	949	579	1414	100
SdB110	1148	620	1945	125
SdB125	1148	620	1969	125
SdB150	1268	703	2055	150
SdB160	1268	790	2100	150



Circulating Air Cooling Roots Blower

其他產品 Other Products



單位換算 Unit Conversion

壓力 Pressure

Kgf/cm ²	kPa	mbar	psi	mmAq mmH ₂ O	Torr mmHg
1	98.0665	980.665	14.2231	10,000	735.559
0.010197	1	10	0.145	101.9716	7.50062
0.001019	0.1	1	0.0145	10.19716	0.750062
0.07031	6.895	68.95	1	703.08	51.7157
0.0001	0.009806	0.098	0.001422	1	0.073556
0.00136	0.13332	1.33321	0.019336	13.5951	1

風量 Capacity

CMM (m ³ /min)	CFM (ft ³ /min)	LPM (l/min)
1	35.32	1000
0.0283	1	28.3125
0.001	0.0353	1

功率 Power

kW	HP	PS
1	1.3404	1.3596
0.746	1	1.0143
0.7355	0.9859	1

專業設計與製造 - 格瑞特魯氏鼓風機

Professional design and manufacturing - Greatech Roots Blower



廣勝工業有限公司

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