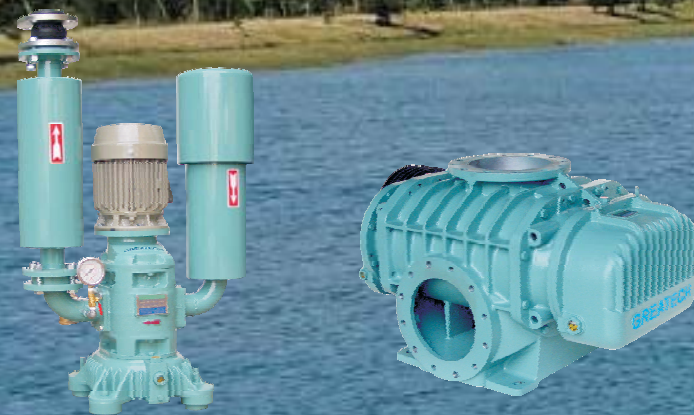


專業設計與製造 - 廣勝魯氏鼓風機
Professional design and manufacturing-Greatch Roots Blower

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.

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Website : www.greatch-rootsblower.com
Edition : 2019.03

廣勝工業有限公司
Greatch 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

G/GM 系列

G/GM Model

性能

口徑: 50mm~150mm (2"~ 6")
壓力: 單段式可達 10000 mmAq
兩段式可達 20000mmAq
真空式可達 -5000 mmAq

Performance

Bore Size: 50mm~150mm (2"~ 6")
Pressure: Single Stage : 0~10000 mmAq
Two Section: 10000~20000 mmAq
As vacuum purpose: up to -5000 mmAq

特點

三葉魯氏鼓風機
節能省電、低噪音
風量穩定、低震動
結構堅固、壽命長
氣體潔淨、無油汙

Advantage

Tri-Lobe Roots Blower
Energy Conservation, Stable Air Flow
Low Noise, Low Vibration
Strong Structure, Long Operating Life
Oil free conveying, Cleaner air

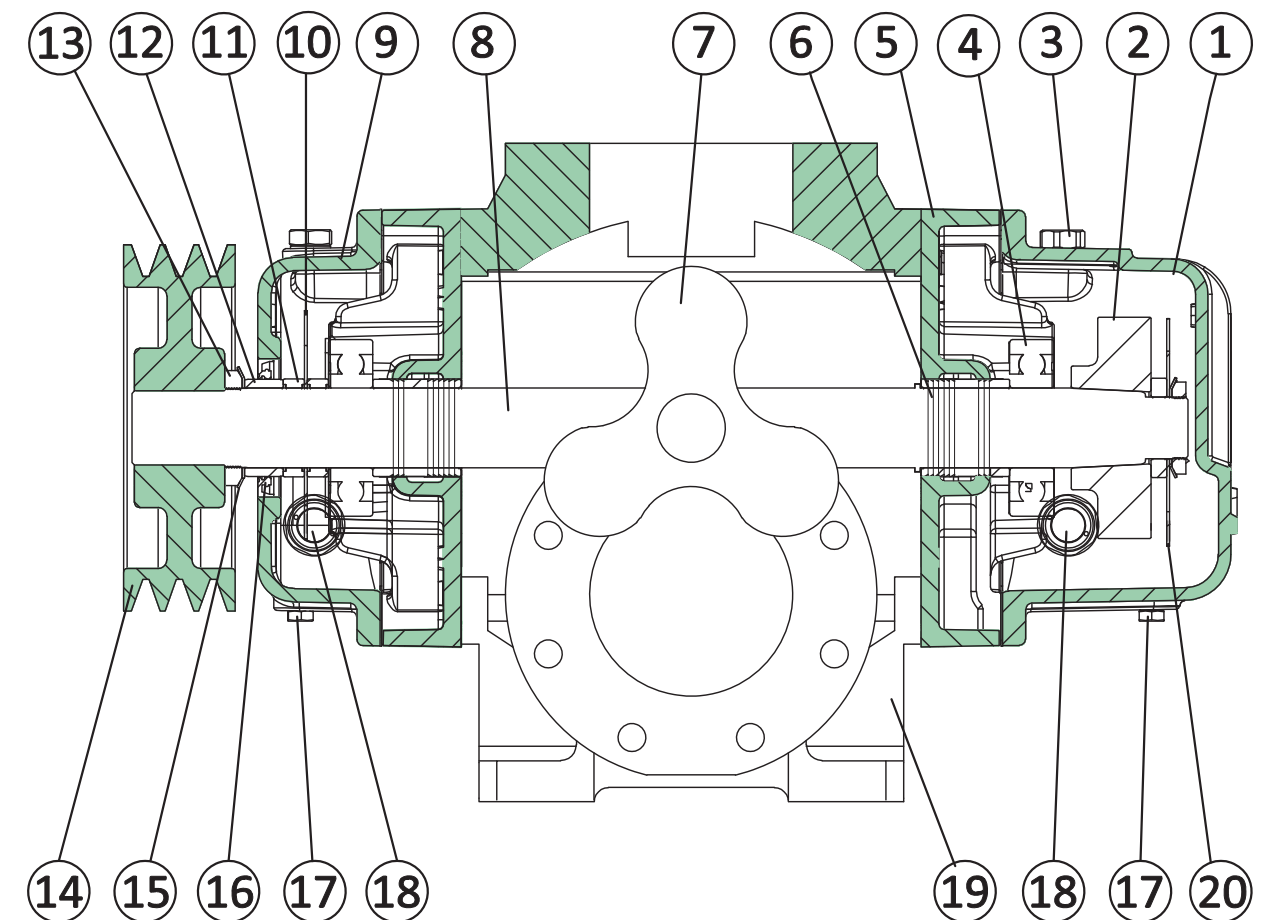
用途

廢水處理, 水產養殖, 電鍍, 粉粒輸送,
穀類輸送, 造紙工業, 食品工業,
半導體工業, 化學工業... 等

Application

Wastewater Treatment, Aquaculture,
Electroplating Industry, Powder Conveyance,
Grain Conveyance, Paper Production,
Food Industry, Semiconductor Industry,
Chemical Industry, etc.

構造圖&材質表 Construction & Material List



No.	Item	Material
1	齒輪箱 gear box	FC250
2	齒輪 gear	SCM415
3	加油塞 oil plug	S45C
4	軸承 bearing	SUJ2
5	側蓋 side cover	FC250
6	軸封 shaft seal	S45C
7	葉輪 Impeller	FC250
8	軸 shaft	SCM440
9	油箱 oil box	FC250
10	甩油片 oil splash	SS400

No.	Item	Material
11	墊圈 washer	SS400
12	油封套筒 sleeve	S45C
13	螺帽 screw nut	SS400
14	皮帶輪 pulley	FC250
15	墊圈 washer	SS400
16	油封 oil seal	NBR
17	洩油塞 oil drainer	S45C
18	油鏡 oil gauge	S45C
19	汽缸 cylinder	FC250
20	甩油片 oil splash	SS400

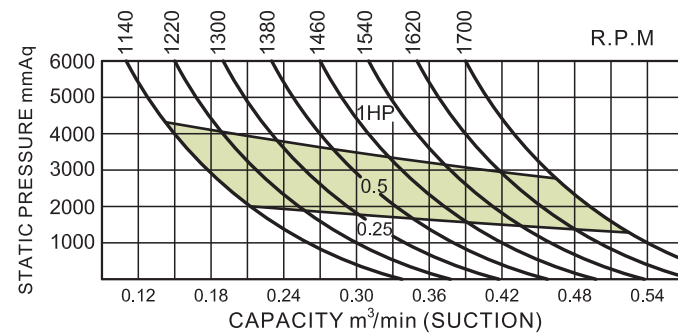
廣勝魯氏鼓風機

壓送型性能曲線 入口風量及出口壓力

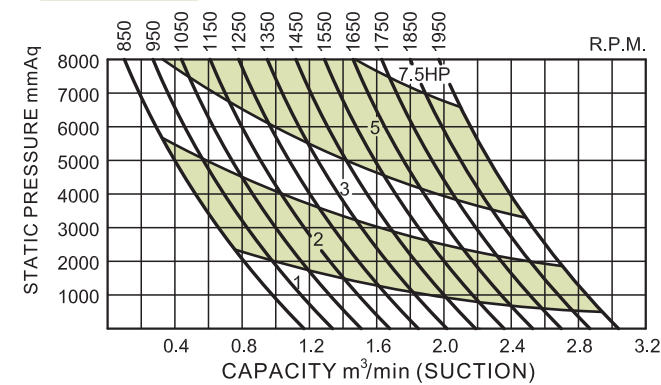
Pressure Conveyance Type Performance Curve

Suction Air & Discharge Pressure

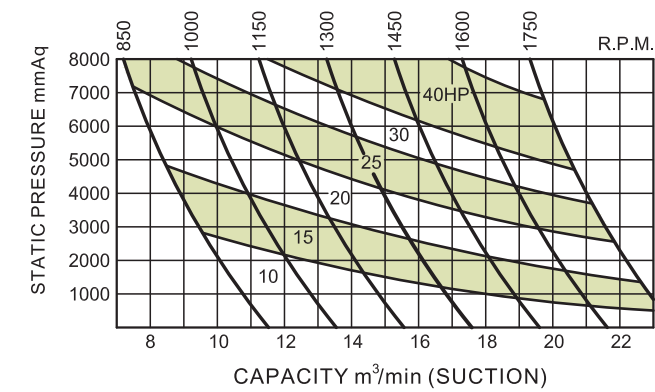
G25



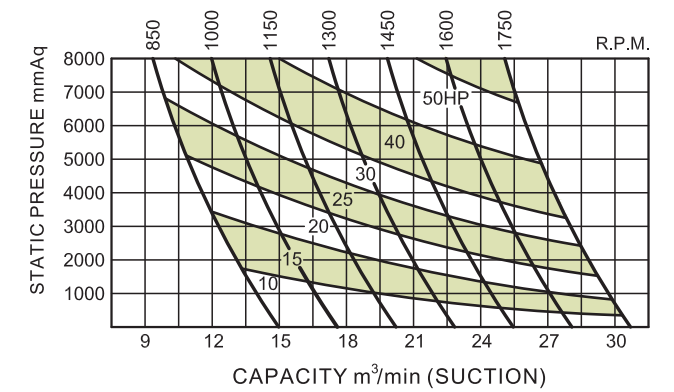
GM55



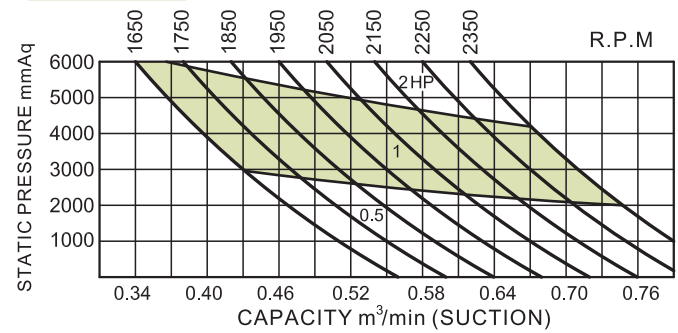
GM125



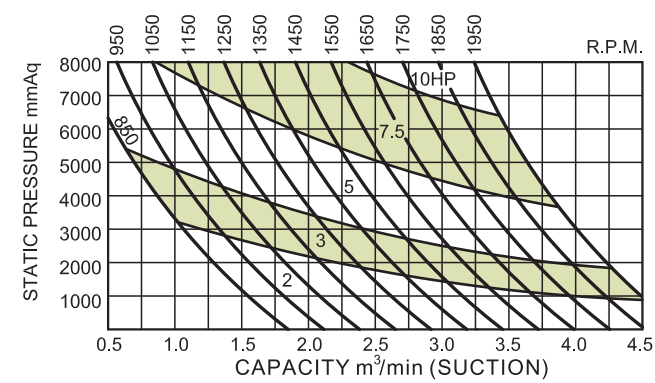
GM150



G32

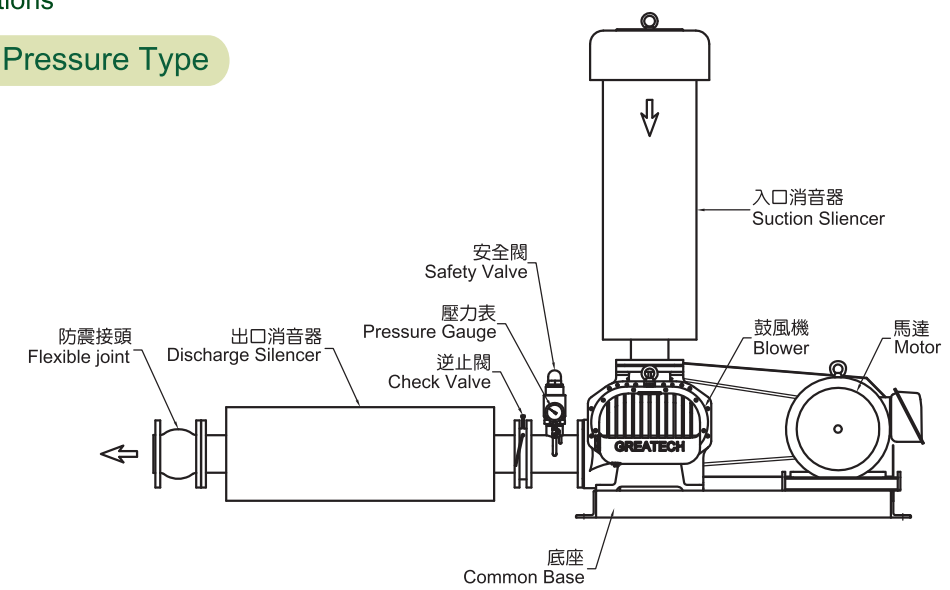


GM65

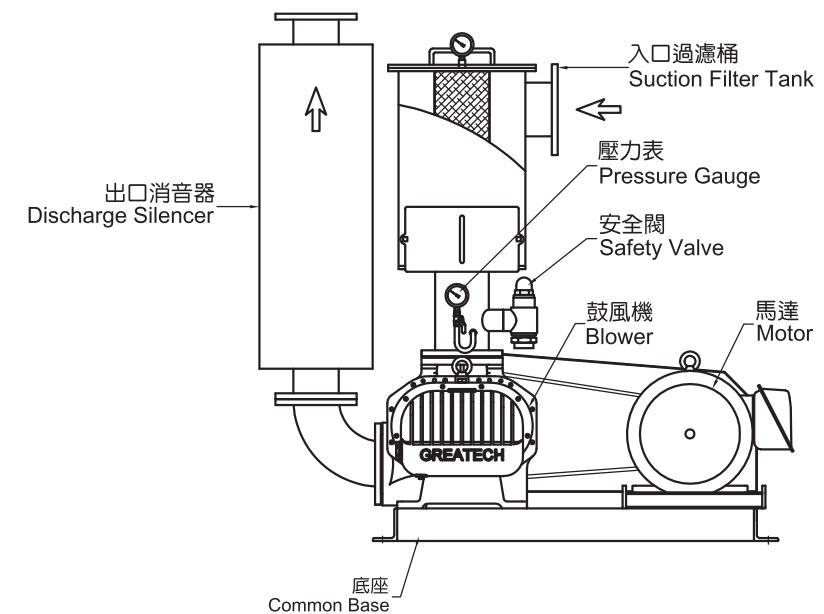


安裝圖 Installations

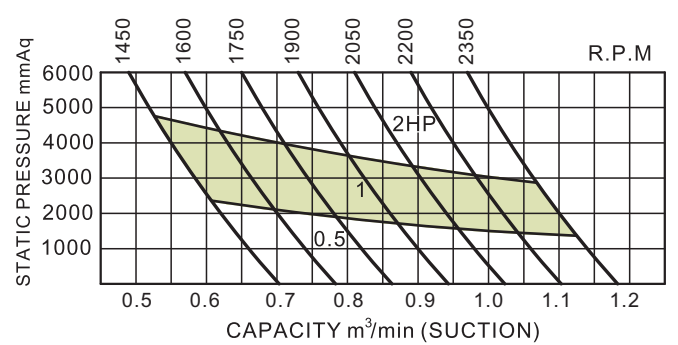
壓送型 Pressure Type



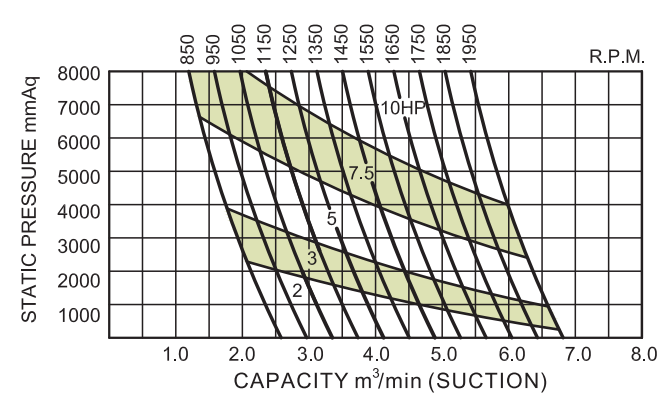
真空型 Vacuum Type



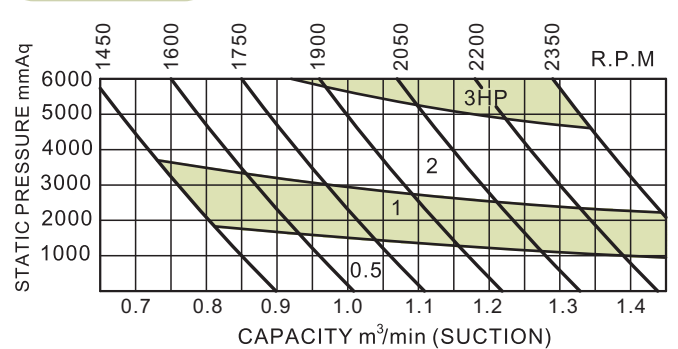
G40



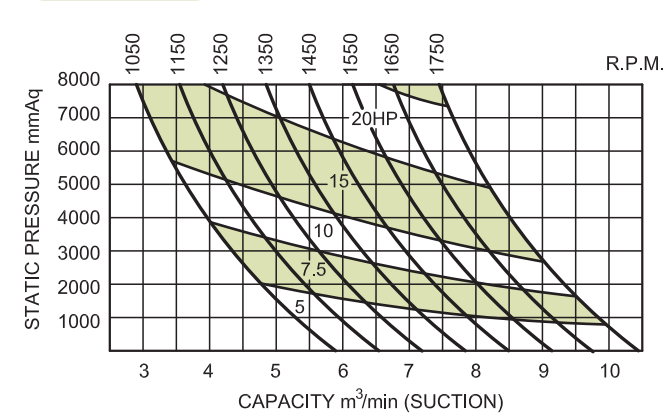
GM80



GL40



GM100



壓送型性能表 入口風量及出口壓力
Pressure Conveyance Type Performance Table
Suction Air & Discharge Pressure

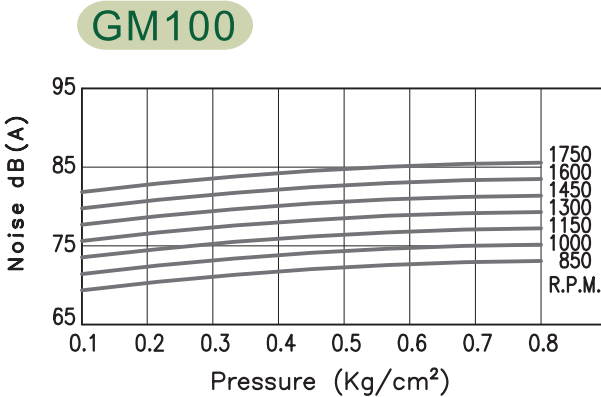
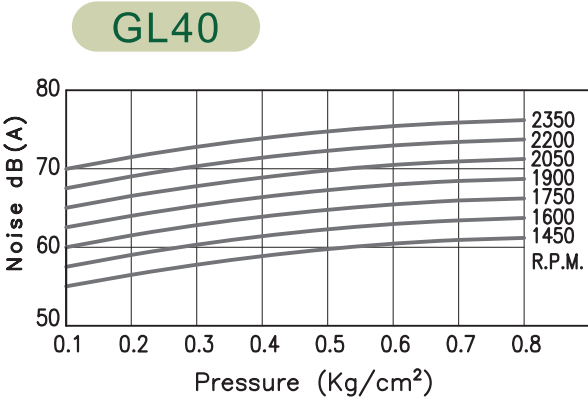
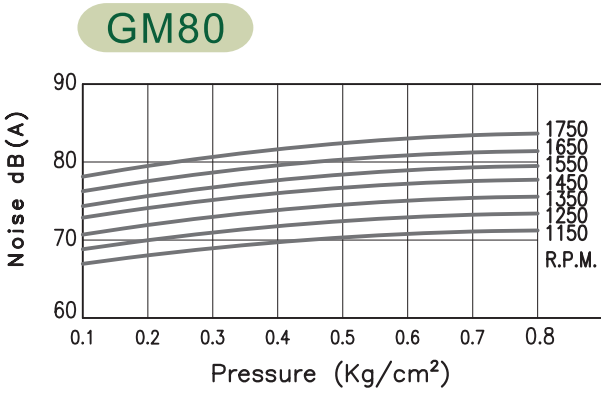
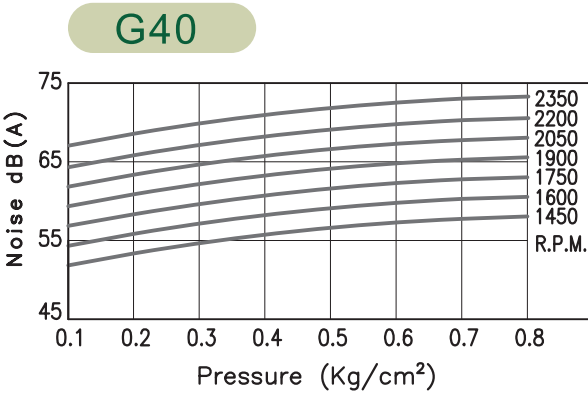
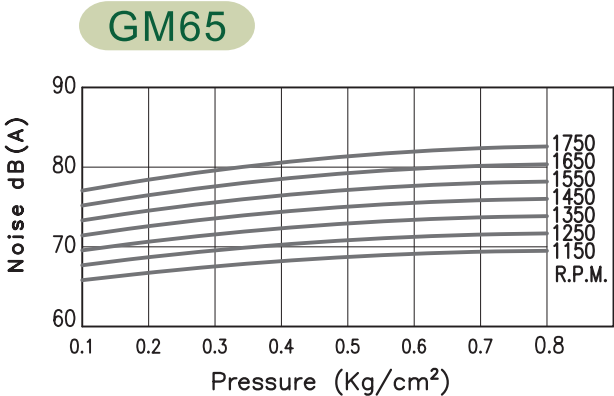
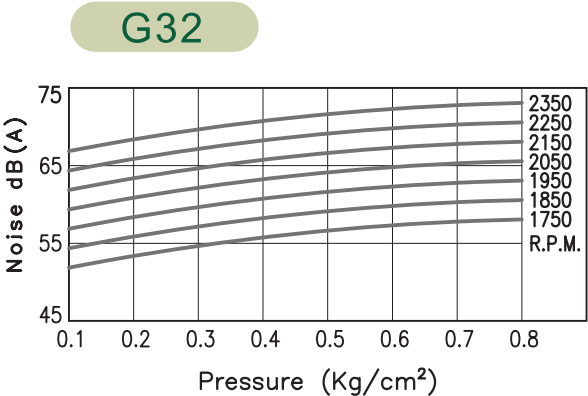
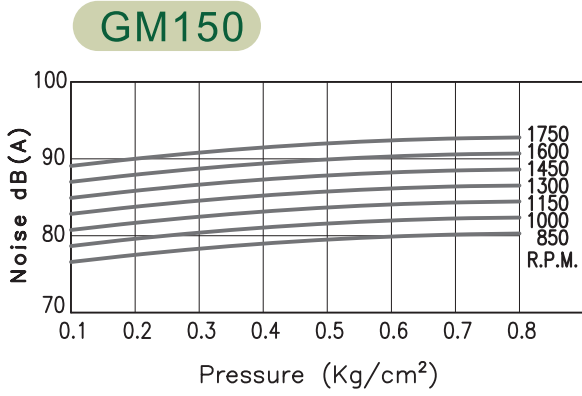
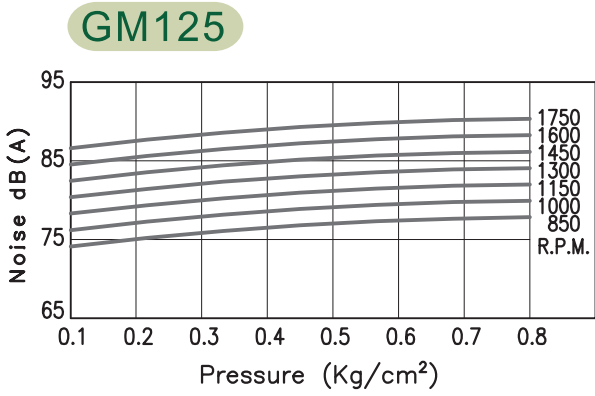
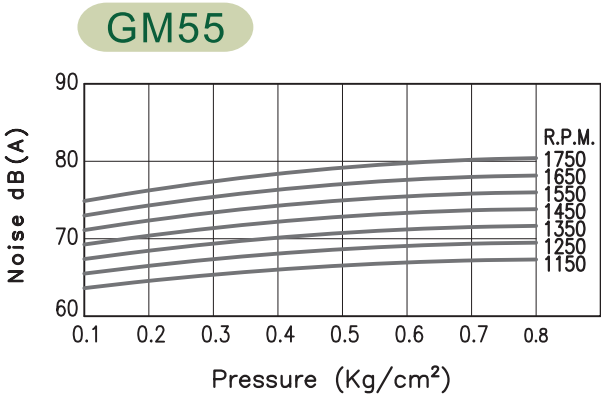
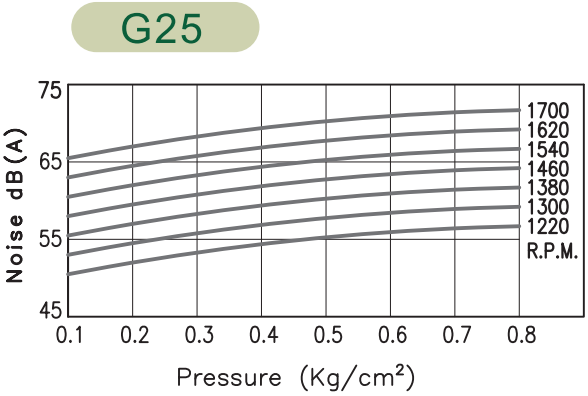
Model	RPM	Pressure(mmAq)						Capacity(m³/min)						Power(kW)			
		1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW
G25	1220	0.30	0.11	0.26	0.19	0.22	0.28	0.19	0.37	0.16	0.45	0.13	0.53				
	1300	0.34	0.12	0.30	0.21	0.26	0.30	0.23	0.39	0.20	0.48	0.17	0.56				
	1380	0.38	0.12	0.34	0.22	0.30	0.32	0.27	0.42	0.24	0.51	0.21	0.59				
	1460	0.42	0.13	0.38	0.23	0.34	0.34	0.31	0.44	0.28	0.54	0.25	0.63				
	1540	0.46	0.14	0.42	0.25	0.38	0.36	0.35	0.47	0.32	0.57	0.29	0.66				
	1620	0.50	0.14	0.46	0.26	0.42	0.38	0.39	0.49	0.36	0.60	0.33	0.70				
	1700	0.54	0.15	0.50	0.27	0.46	0.40	0.43	0.51	0.40	0.63	0.37	0.73				
G32	1750	0.55	0.16	0.51	0.28	0.47	0.41	0.44	0.53	0.41	0.64	0.38	0.75				
	1850	0.59	0.17	0.55	0.30	0.51	0.43	0.48	0.56	0.45	0.68	0.42	0.80				
	1950	0.63	0.17	0.59	0.31	0.55	0.45	0.52	0.59	0.49	0.72	0.46	0.84				
	2050	0.67	0.18	0.63	0.33	0.59	0.48	0.56	0.62	0.53	0.75	0.50	0.88				
	2150	0.71	0.19	0.67	0.34	0.63	0.50	0.60	0.65	0.57	0.79	0.54	0.93				
	2250	0.75	0.20	0.71	0.36	0.67	0.52	0.64	0.68	0.61	0.83	0.58	0.97				
	2350	0.79	0.21	0.75	0.38	0.71	0.55	0.68	0.71	0.65	0.86	0.62	1.01				
G40	1450	0.66	0.18	0.62	0.33	0.58	0.48	0.55	0.63	0.52	0.76	0.49	0.89				
	1600	0.74	0.20	0.70	0.37	0.66	0.53	0.63	0.69	0.60	0.84	0.57	0.98				
	1750	0.82	0.22	0.78	0.40	0.74	0.58	0.71	0.76	0.68	0.92	0.65	1.08				
	1900	0.90	0.24	0.86	0.43	0.82	0.63	0.79	0.82	0.76	1.00	0.73	1.17				
	2050	0.98	0.26	0.94	0.47	0.90	0.68	0.87	0.88	0.84	1.08	0.81	1.26				
	2200	1.06	0.28	1.02	0.50	0.98	0.73	0.95	0.95	0.92	1.16	0.89	1.35				
	2350	1.14	0.30	1.10	0.54	1.06	0.78	1.03	1.01	1.00	1.24	0.97	1.45				
GL40	1450	0.85	0.24	0.80	0.43	0.76	0.63	0.72	0.81	0.68	0.99	0.64	1.16				
	1600	0.96	0.27	0.91	0.47	0.87	0.69	0.83	0.90	0.79	1.09	0.75	1.28				
	1750	1.06	0.29	1.01	0.52	0.97	0.76	0.93	0.98	0.88	1.20	0.86	1.40				
	1900	1.17	0.32	1.12	0.56	1.08	0.82	1.04	1.07	1.00	1.30	0.96	1.52				
	2050	1.28	0.34	1.23	0.61	1.19	0.89	1.15	1.15	1.11	1.40	1.07	1.64				
	2200	1.39	0.36	1.34	0.65	1.30	0.95	1.26	1.23	1.22	1.50	1.18	1.76				
	2350	1.50	0.39	1.45	0.70	1.41	1.02	1.37	1.32	1.33	1.61	1.29	1.88				
GM55	1050	1.33	0.56	1.15	0.84	1.00	1.11	0.86	1.37	0.74	1.62	0.63	1.86	0.53	2.10	0.45	2.34
	1150	1.49	0.62	1.32	0.92	1.17	1.21	1.03	1.50	0.91	1.77	0.80	2.04	0.70	2.30	0.61	2.56
	1250	1.66	0.67	1.49	1.00	1.34	1.32	1.20	1.63	1.08	1.93	0.97	2.22	0.87	2.50	0.78	2.78
	1350	1.83	0.72	1.66	1.08	1.51	1.42	1.37	1.76	1.25	2.08	1.14	2.40	1.04	2.70	0.95	3.01
	1450	2.00	0.78	1.83	1.16	1.68	1.53	1.54	1.89	1.42	2.23	1.31	2.57	1.21	2.90	1.12	3.23
	1550	2.17	0.83	2.00	1.24	1.85	1.63	1.71	2.02	1.59	2.39	1.48	2.75	1.38	3.10	1.29	3.45
	1650	2.34	0.88	2.17	1.32	2.01	1.74	1.88	2.15	1.76	2.54	1.65	2.93	1.55	3.30	1.46	3.67
GM65	1750	2.51	0.94	2.34	1.40	2.18	1.85	2.05	2.28	1.93	2.70	1.82	3.11	1.72	3.50	1.63	3.90
	1050	2.09	0.88	1.83	1.31	1.61	1.73	1.41	2.13	1.23	2.53	1.08	2.91	0.94	3.29	0.84	3.65
	1150	2.35	0.96	2.09	1.44	1.87	1.89	1.67	2.34	1.50	2.77	1.35	3.19	1.21	3.60	1.10	4.00
	1250	2.62	1.05	2.36	1.56	2.14	2.06	1.94	2.54	1.76	3.01	1.61	3.47	1.47	3.91	1.37	4.35
	1350	2.88	1.13	2.62	1.69	2.40	2.22	2.20	2.74	2.03	3.25	1.88	3.74	1.74	4.22	1.63	4.70
	1450	3.15	1.21	2.89	1.81	2.67	2.39	2.47	2.95	2.29	3.49	2.14	4.02	2.00	4.54	1.90	5.04
	1550	3.41	1.30	3.15	1.94	2.93	2.55	2.73	3.15	2.56	3.73	2.40	4.30	2.26	4.85	2.16	5.39
	1650	3.68	1.38	3.42	2.06	3.20	2.72	3.00	3.36	2.82	3.97	2.67	4.58	2.53	5.16	2.43	5.74
	1750	3.94	1.47	3.68	2.19	3.46	2.89	3.26	3.56	3.08	4.22	2.93	4.85	2.79	5.48	2.69	6.09

Model	RPM	Pressure(mmAq)						Capacity(m³/min)						Power(kW)			
		1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW	m³/min	kW
GM80	1150	3.48	1.40	3.20	2.06	3.05	2.71	2.93	3.34	2.73	3.97	2.58	4.58	2.45	5.18	2.35	5.78
	1250	3.86	1.52	3.68	2.24	3.45	2.94	3.32	3.63	3.11	4.31	2.96	4.98	2.84	5.63	2.73	6.28
	1350	4.24	1.64	4.05	2.42	3.91	3.18	3.70	3.93	3.50	4.66	3.34	5.38	3.22	6.08	3.11	6.78
	1450	4.63	1.76	4.34	2.60	4.23	3.42	4.08	4.22	3.88	5.00	3.73	5.77	3.60	6.53	3.50	7.29
	1550	5.05	1.88	4.82	2.78	4.65	3.65	4.46	4.51	4.26	5.35	4.11	6.17	4.00	6.99	3.92	7.79
	1650	5.39	2.00	5.21	2.96	5.01	3.89	4.84	4.80	4.68	5.69	4.52	6.57	4.41	7.44	4.32	8.29
	1750	5.80	2.13	5.62	3.14	5.40	4.12	5.23	5.09	5.02	6.04	4.87	6.97	4.75	7.89	4.64	8.79
GM100	1050	5.28	2.64	4.78	3.68	4.33	4.17	3.96	5.73	3.64	6.74	3.35	7.74	3.11	8.74	2.90	9.73
	1150	5.94	2.89	5.43	4.03	4.99	5.16	4.61	6.28	4.29	7.39	4.00	8.48	3.76	9.57	3.55	10.65
	1250	6.59	3.14	6.08	4.38	5.64	5.61	5.27	6.82	4.95	8.03	4.65	9.22	4.41	10.40	4.20	11.58
	1350	7.24	3.39	6.73	4.73	6.29	6.06	5.92	7.37	5.60	8.67	5.30	9.96	5.06	11.24	4.85	12.51
	1450	7.89	3.64	7.38	5.08	6.94	6.51	6.57	7.92	6.25	9.31	5.96	10.69	5.17	12.07	5.51	13.43
	1550	8.54	3.89	8.03	5.43	7.59	6.96	7.22	8.46	6.90	9.95	6.61	11.43	6.37	12.90	6.16	14.36
	1650	9.19	4.14	8.69	5.78	8.24	7.40	7.87	9.01	7.55	10.60	7.26	12.17	7.02	13.73	6.81	15.28
GM125	1750	9.85	4.40	9.34	6.14	8.89	7.86	8.52	9.55	8.20	11.24	7.91	12.91	7.67	14.56	7.46	16.21
	850	10.76	4.52	10.07	6.23	9.45	7.92	8.89	9.61	8.39	11.28	7.95	12.95	7.55	14.60	7.20	16.25
	1000	12.78	5.31	12.09	7.33	11.47	9.32	10.91	11.30	10.41	13.27	9.97	15.23	9.56	17.18	9.21	19.12
	1150	14.80	6.11	14.10	8.42	13.48	10.72	12.93	13.00	12.43	15.26	11.98	17.52	11.58	19.76	11.23	21.99
	1300	16.81	6.91	16.12	9.52	15.50	12.12	14.94	14.69	14.45	17.25	14.00	19.80	13.60	22.33	13.25	24.86
	1450	18.83	7.71	18.14	10.62	17.52	13.52	16.96	16.39	16.46	19.24	16.02	22.08	15.62	24.91	15.27	27.73
	1600	20.85	8.50	20.16	11.72	19.54	14.91	18.98	18.08	18.48	21.24	18.04	24.37	17.63	27.49	17.28	30.59
GM150	1750	22.87	9.30	22.17	12.82	21.55	16.31	21.00	19.78	20.50	23.23	20.05	26.65	19.65	30.06	19.30	33.46
	850	13.90	5.84	13.01	8.04	12.21	10.24	11.49	12.41	10.84	14.57	10.27	16.73	9.75	18.87	9.30	21.00
	1000	16.51	6.87	15.61	9.46	14.81	12.04	14.09	14.60	13.45	17.15	12.88	19.68	12.36	22.19	11.90	24.70
	1150	19.11	7.90	18.22	10.88	17.42	13.85	16.70	16.79	16.06	19.72	15.48	22.63	14.96	25.52	14.51	28.81
	1300	21.72	8.93	20.83	12.30	20.03	15.66	19.31	18.98	18.66	22.29	18.09	25.58	17.57	28.85	17.12	32.11
	1450	24.33	9.96	23.43	13.72	22.63	17.46	21.91	21.17	21.27	24.86	20.70	28.53	20.17	32.18	19.72	35.82
	1600	26.93	10.99	26.04	15.14	25.24	19.27	24.52	23.36	23.88	27.43	23.30	31.48	22.78	35.51	22.33	39.52
	1750	29.54	12.02	28.65	16.56	27.85	21.08	27.13	25.55	26.48	30.01	25.91	34.43	25.39	38.84	24.94	43.23

噪音表 Noise Curve

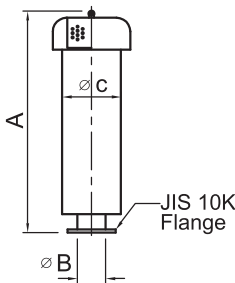
噪音值是在出口裝置消音器及配管狀態下，距離鼓風機1公尺所測量的平均值

The noise level is measured at the distance 1 meter from the blower equipping with discharge silencer.



附屬配件 Accessories

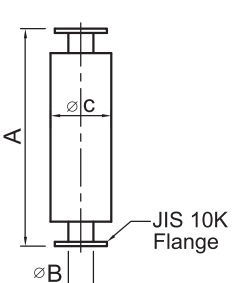
入口消音器 SUCTION SILENCER



UNITS : mm

MODEL	A	B	C	適用機型
S50	568	76	165	GM55
S65	568	76	165	GM65
S80	790	89	216	GM80
S100	845	114	216	GM100
S125	1263	139	315	GM125
S150	1273	165	345	GM150
S200	1939	216	525	G200
S250	1939	267	600	G250
S300	2096	320	650	G300
S350	2310	355	700	G350

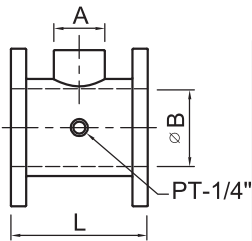
出口消音器 DISCHARGE SILENCER



UNITS : mm

MODEL	A	B	C	適用機型
D50	438	60	165	GM55
D65	438	76	165	GM65
D80	693	89	216	GM80
D100	750	114	216	GM100
D125	1204	139	315	GM125
D150	1204	165	345	GM150
D200	1727	216	525	G200
D250	1727	267	600	G250
D300	1757	320	700	G300
D350	1757	355	800	G350

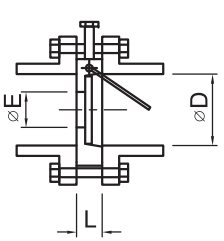
三通管 "T" JOINT



UNITS : mm

MODEL	A	B	L	適用機型
T50	40	60	154	GM55
T65	40	76	154	GM65
T80	40	89	169	GM80
T100	40	114	173	GM100
T125	50	139	213	GM125
T150	50	165	213	GM150
T200	80	216	270	G200
T250	80	267	300	G250

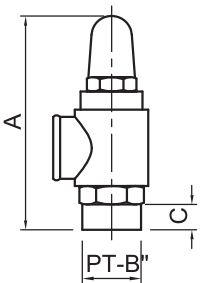
逆止閥 CHECK VALVE



UNITS : mm

MODEL	D	E	L	適用機型
C50	50	25	22	GM55
C65	65	36	22	GM65
C80	80	46	22	GM80
C100	100	66	26	GM100
C125	125	88	27	GM125
C150	150	108	30	GM150
C200	200	138	32	G200
C250	250	185	35	G250

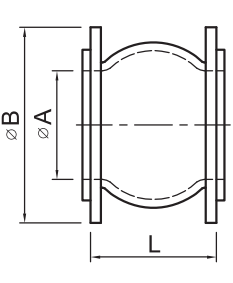
安全閥 RELIEF VALVE



UNITS : mm

MODEL	A	B	C	適用機型
R15	100	1/2"	15	G25~G40
R40	190	1.5"	23	GM55~GM100
R50	198	2"	25	GM125~GM150
R80	306	3"	30	G200~G250

防震接頭 FLEXIBLE JOINT

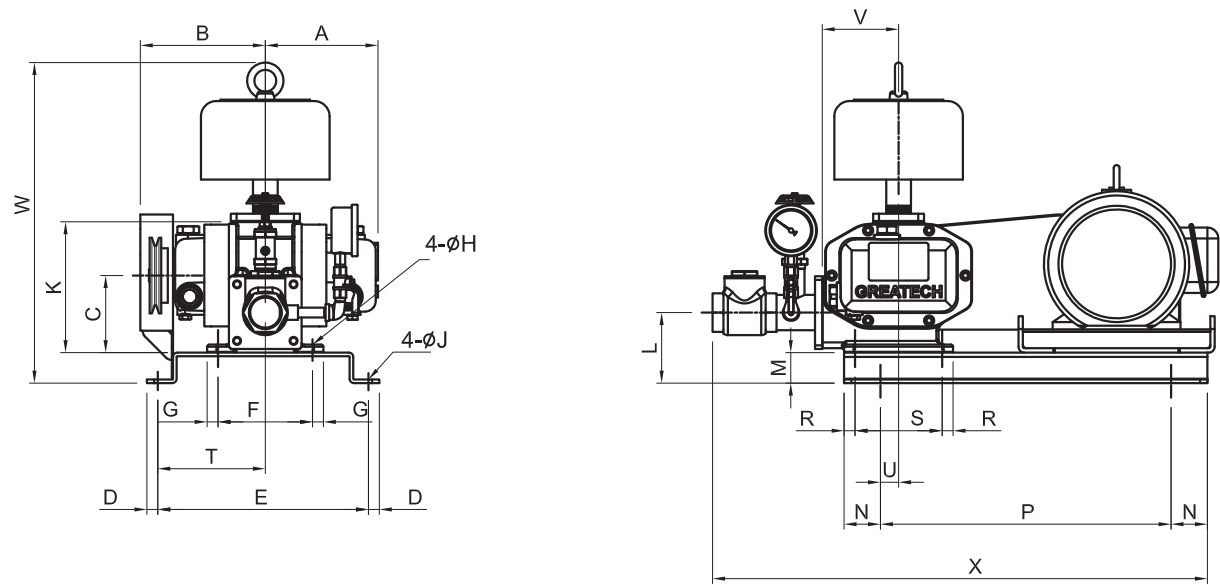


UNITS : mm

MODEL	A	B	L	適用機型
F50	50	155	110	GM55
F65	65	175	110	GM65
F80	80	185	130	GM80
F100	100	210	135	GM100
F125	125	250	170	GM125
F150	150	280	180	GM150
F200	200	330	210	G200
F250	250	400	240	G250
F300	300	445	275	G300
F350	350	490	275	G350

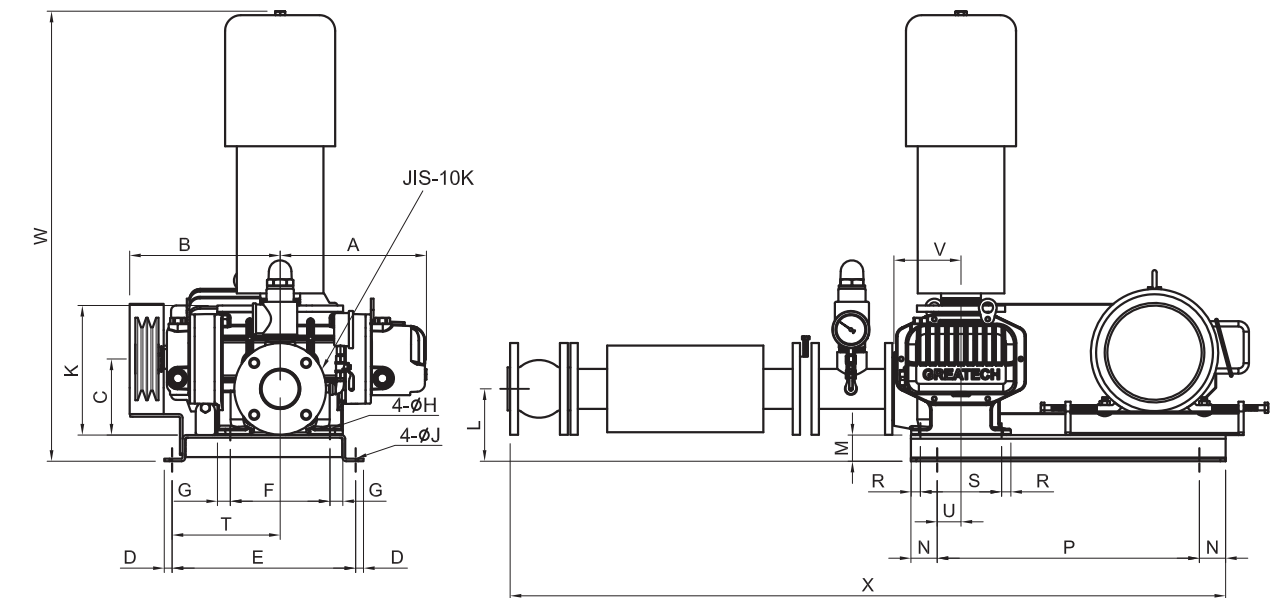
外型尺寸 Outline Dimension

G25-GL40



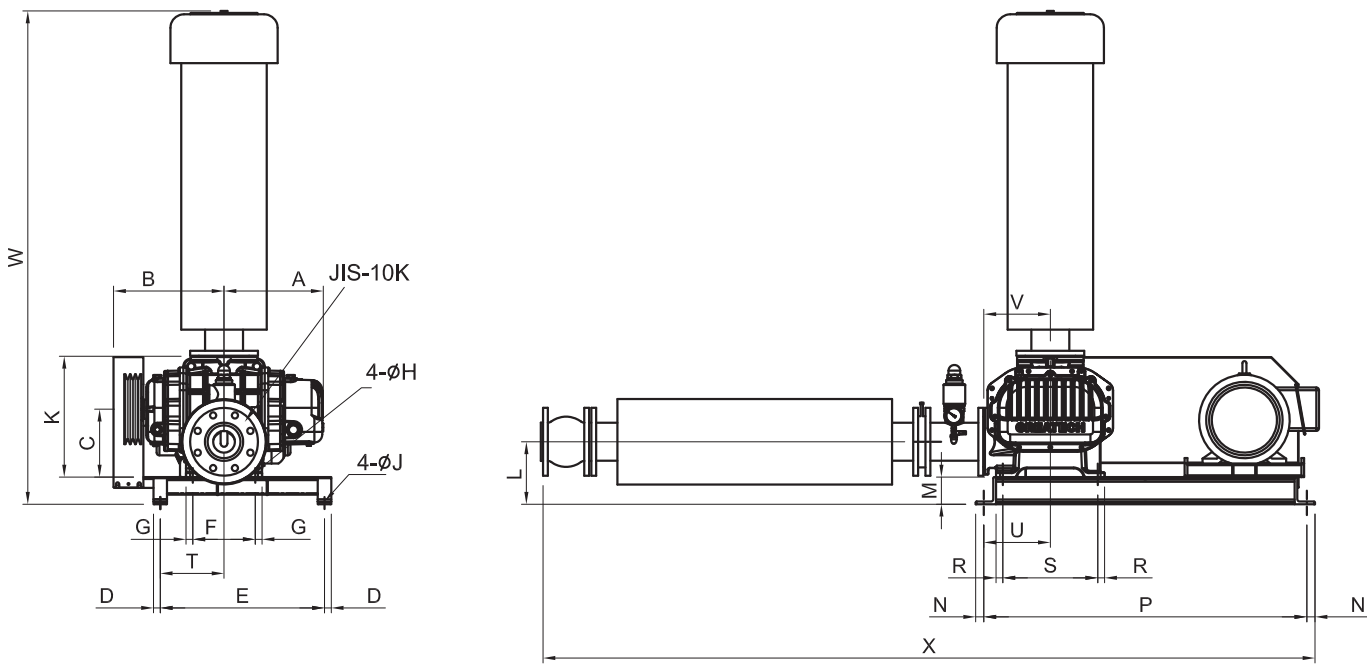
Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X
G25	140	158	106	15	227	95	15	10	12	180	82	45	50	350	15	120	134	25	105	441	615
G32	140	158	106	15	227	95	15	10	12	180	82	45	50	350	15	120	134	25	105	441	626
G40	155	172	106	15	290	130	15	10	12	180	97	42	50	400	15	120	148	25	105	441	681
GL40	170	188	106	15	290	160	15	10	12	180	97	42	50	400	15	120	164	25	105	441	681

GM55-GM65



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X
GM55	233	243	145	15	305	190	15	12	12	248	128	50	50	500	17.5	120	162	45.5	128	860	1365
GM65	276	288	145	15	350	190	25	13	12	248	138	50	50	500	17.5	155	206	45.5	128	860	1365

GM80-GM150



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X
GM80	278	303	168	20	370	210	24	14	15	277	168	75	33	734	20	200	210	162	153	1007	1636
GM100	305	355	211	20	450	190	25	19	15	372	192	75	33	934	25	250	205	187	195	1303	2067
GM125	362	407	250	25	605	230	25	19	19	445	230	100	30	1190	25	350	235	245	245	1820	2844
GM150	407	452	274	25	605	320	25	19	19	470	250	100	30	1190	25	350	280	245	245	1857	2845

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