



專利字號：
新型第101792號
新型第116717號
ISO 9001 2000國際品質認證

Minimal Vibration and Low Noise Roots Blower

ISO 9001



Specializing in the manufacturing of Roots blowers



TH TH-type (Pressure Conveyance)
Pressures Applied : 0~0.6kgf/cm² 1-300HP



THV THV-type (Vacuum)
Pressures Applied : 0~0.45 kgf/cm² 2-250HP



THW THW-type
Pressures Applied:
0~1 kgf/cm² 1.5 - 300HP



THS THS-type
Pressures Applied:
0~0.8 kgf/cm² 10-250HP



THL THL-type The maximum pressure is 2kgf/cm²
2-section Series 650 mmHg in a vacuum

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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.

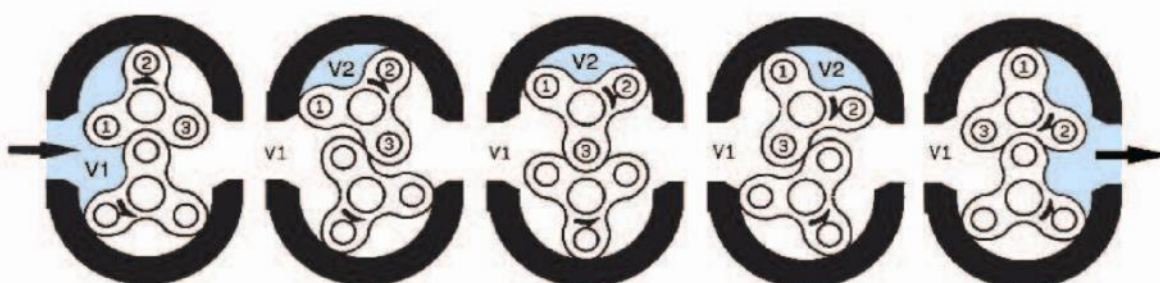
* Unique Design with Quality Components

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.

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.

Why Should You Select the Trundean Roots Blower?

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。

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

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.

Lower Energy Consumption

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

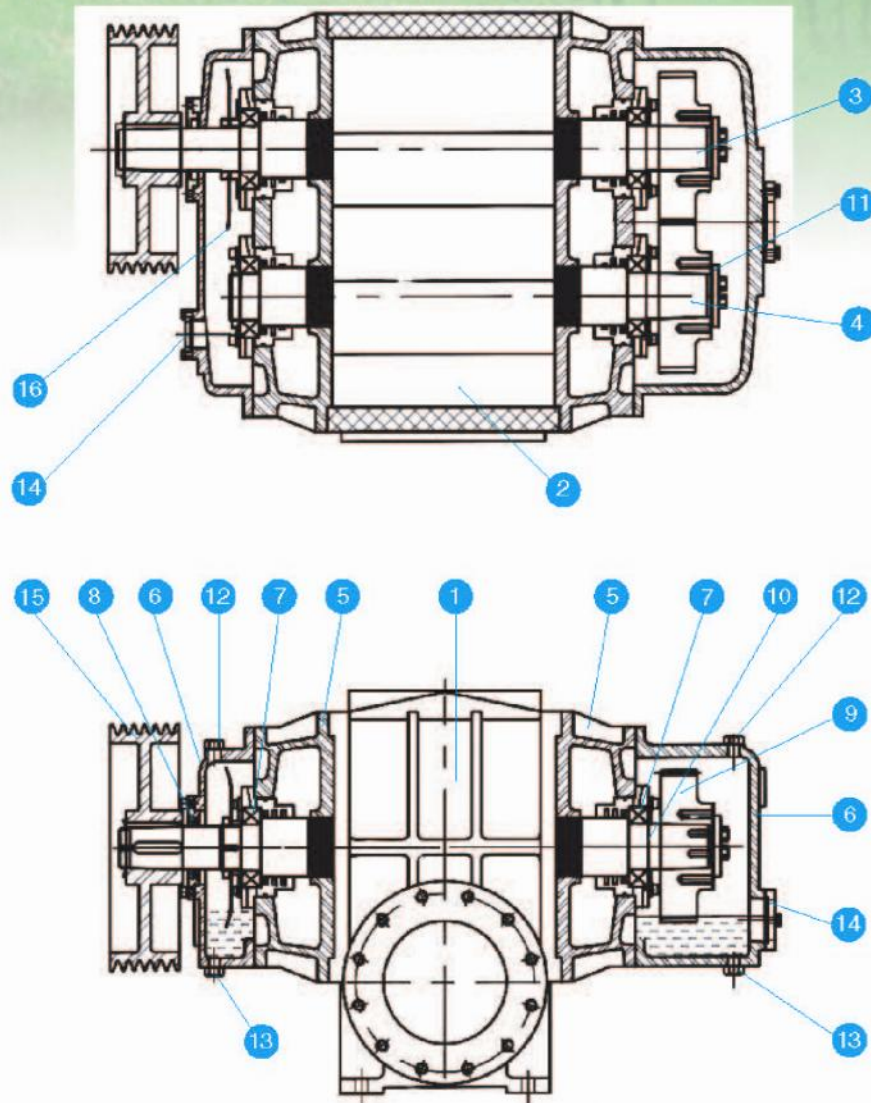
Longer Bearing Life

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

Structural Graphs for the TRUN-DEAN Roots Blower



NO.	Name	Material	Q'ty	NO.	Name	Material	Q'ty
1	Casing	FC25	1	9	Gear	SNM21	2
2	Rotor	FC25	2	10	"S" Ring	SK7	2
3	Drive Shaft	SCM440	1	11	Washer	S45C	2
4	Driven Shaft	SCM440	1	12	Lubrication Plug	FCMB28	2
5	Side Cover	FC25	2	13	Drain Plug	FCMB28	2
6	Oil Box	FC25	2	14	Oil Gauge	BRASS	2
7	Bearing	SUJ2	4	15	Pulley	FC20	1
8	Oil Seal	NBR	1	16	Oil Splasher	SS41	1

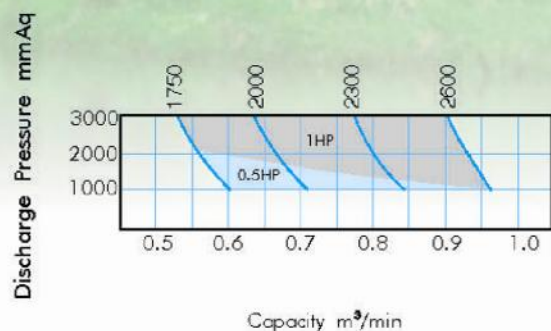
Performance Table of TH-type Roots Blower (Pressure Conveyance)

TYPE	R.P.M	Qs (m³/min) P (mmAq) La (Kw)												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	1.88	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	7.80	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	15.8	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	20.8	5.8	19.5	9.9	18.8	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-200A	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-250	730	24.6	8.7	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-300	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	74.8	57.2	89.4	880
	980	72.9	20.7	70.9	36.2	69.2	51.4	67.8	68.9	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	74.8	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	78.9	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	88.1	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

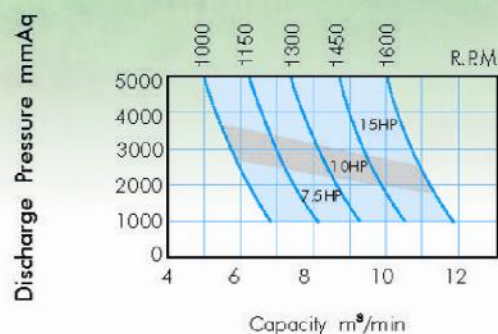
(Pressure Conveyance)

Curve Diagram of the performance of the TH-type

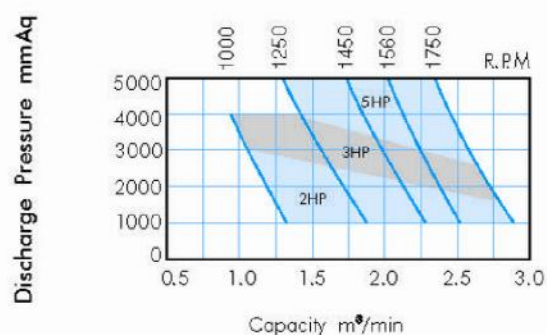
TH-40



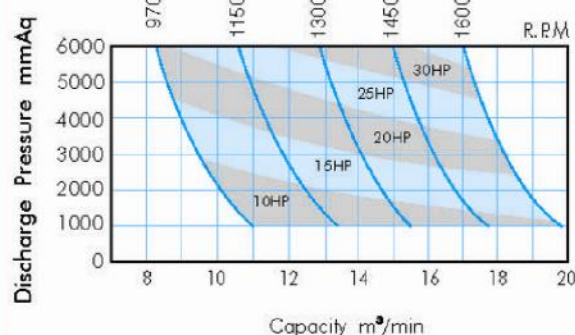
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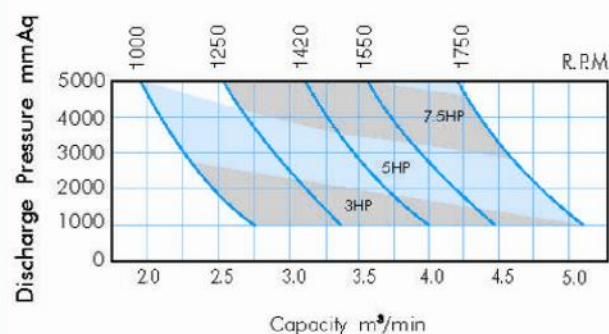
TH-50



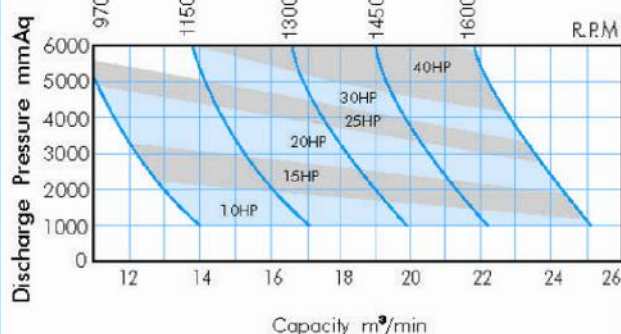
TH-125



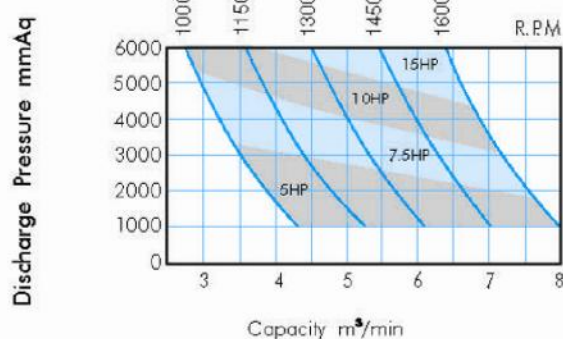
TH-65



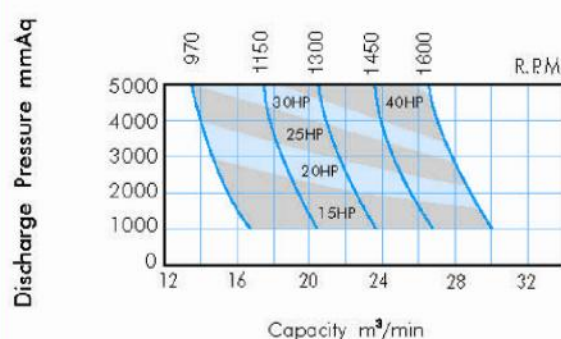
TH-125A



TH-80

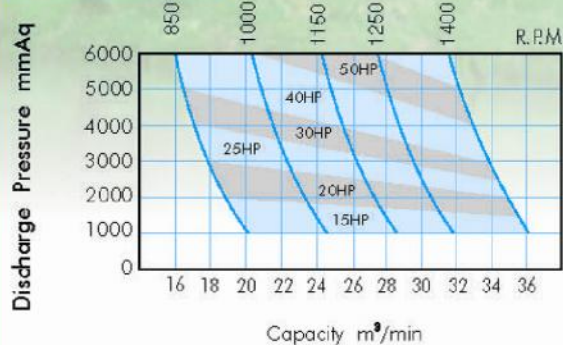


TH-150

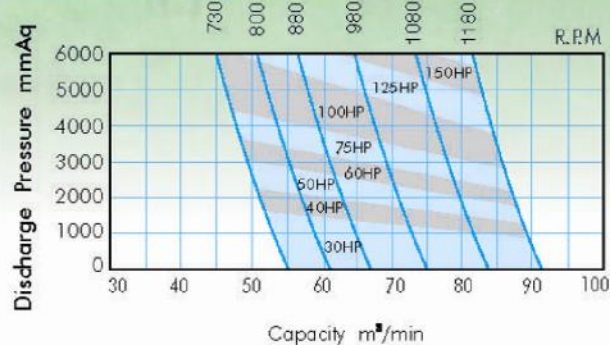


Curve Diagram of the performance of the TH-type

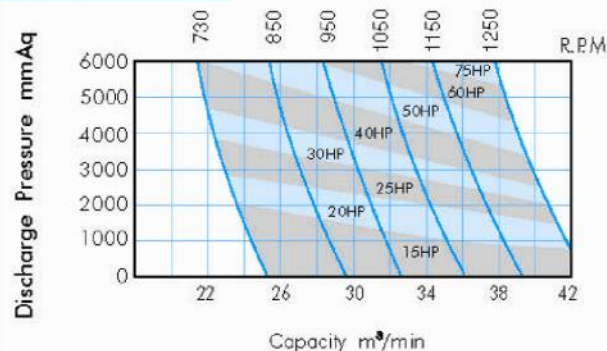
TH-150A



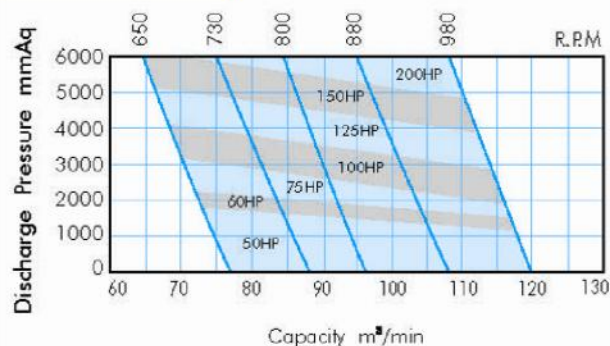
TH-300



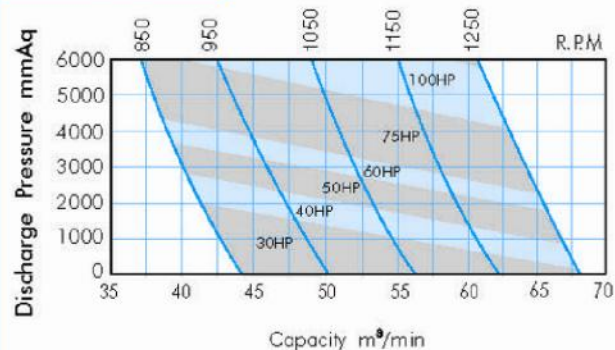
TH-200



TH-300A

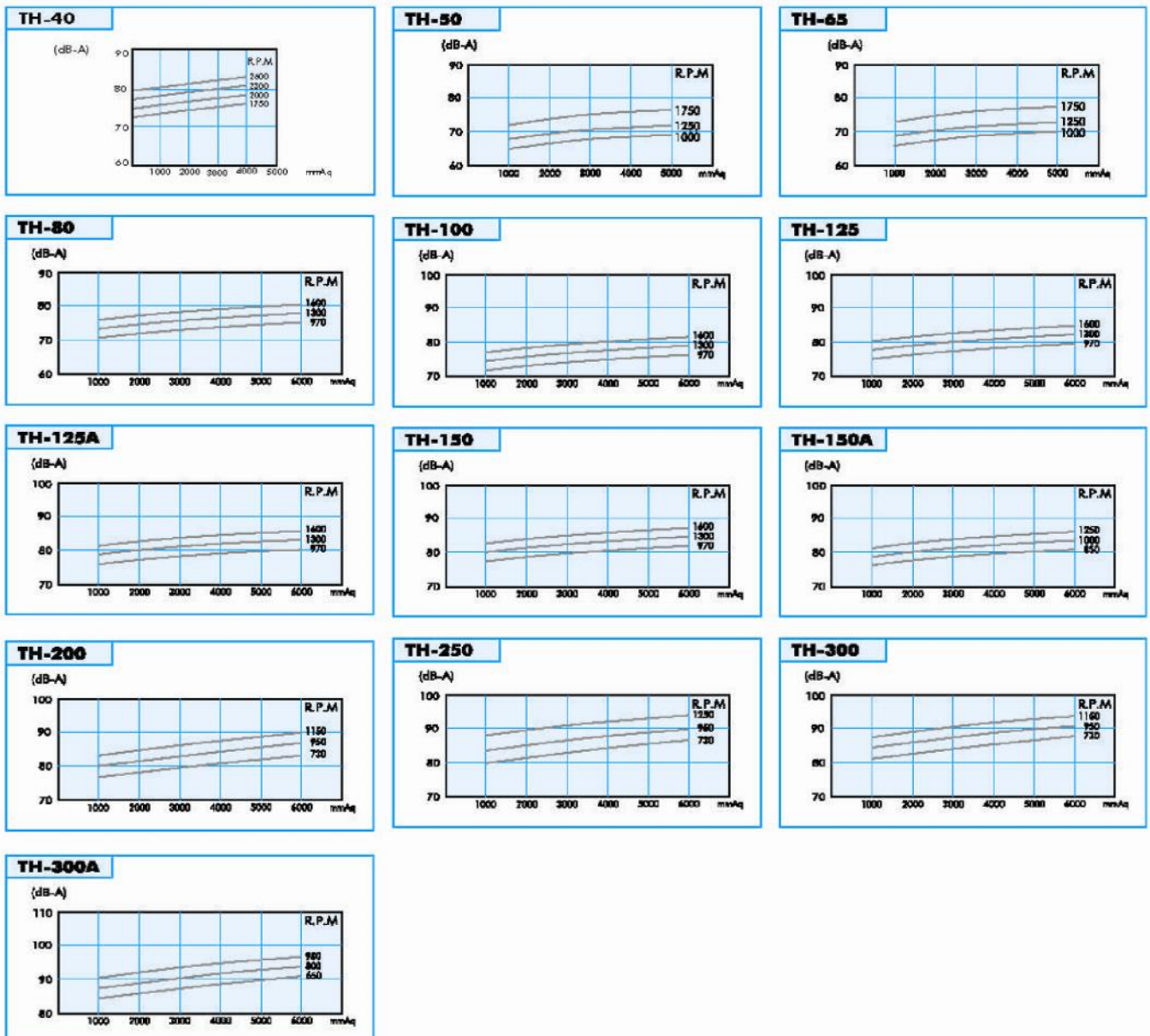


TH-250



Noise Level of Blower

Noise level measured at a distance of 1 meter for the blower fitted with a standard silencer.
Noise level may be different according to the extent pipe length and environmental conditions.



本公司所生產製造之機型，已有局部研發改良，更能有效降低噪音值。

Performance Table of THV-type Roots Blower

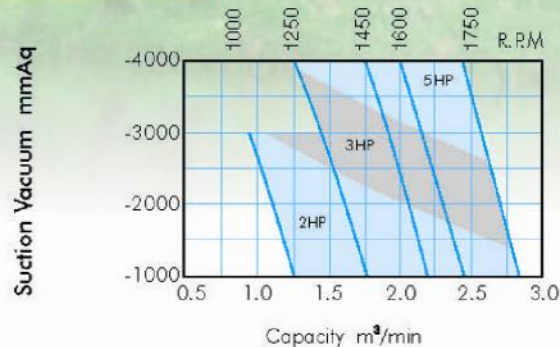
(Vacuum)

TYPE	R.P.M	Qs (m³/min)				P (mmAq)				La (Kw)				R.P.M
		-1000mmAq		-2000mmAq		-3000mmAq		-3500mmAq		-4000mmAq		-4500mmAq		
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	
THV-50	1000	1.22	0.72	1.07	1.07	0.93	1.45	0.86	1.61					1000
	1250	1.76	0.91	1.61	1.35	1.47	1.82	1.40	2.02	1.33	2.22			1250
	1450	2.19	1.05	2.04	1.56	1.90	2.10	1.83	2.34	1.76	2.58			1450
	1560	2.42	1.13	2.27	1.68	2.13	2.26	2.06	2.52	1.99	2.77			1560
	1750	2.83	1.27	2.68	1.88	2.54	2.54	2.47	2.83	2.40	3.11			1750
THV-65	1000	2.56	1.24	2.31	1.90	2.10	2.50	2.00	2.77	1.89	3.10			1000
	1250	3.23	1.50	2.97	2.20	2.76	2.90	2.65	3.27	2.55	3.63	2.47	3.98	1250
	1420	3.85	1.70	3.59	2.50	3.38	3.31	3.27	3.75	3.17	3.75	3.09	4.55	1420
	1550	4.30	1.80	4.03	2.70	3.82	3.61	3.72	4.09	3.61	4.20	3.53	4.97	1550
	1750	4.99	2.10	4.72	3.10	4.51	4.10	4.40	4.62	4.30	4.54	4.22	5.61	1750
THV-80	1150	5.11	1.80	4.55	2.90	4.03	3.90	3.83	4.50	3.61	5.00	3.42	5.50	1150
	1300	6.12	2.00	5.51	3.20	4.98	4.40	4.71	5.00	4.43	5.60	4.19	6.20	1300
	1450	7.09	2.20	6.43	3.60	5.81	5.00	5.51	5.60	5.12	6.30	4.99	6.90	1450
	1600	7.98	2.50	7.31	4.00	6.64	5.50	6.37	6.20	6.04	6.90	5.78	7.70	1600
	1750	8.85	2.70	8.23	4.40	7.54	6.00	7.24	6.80	6.92	7.60	6.61	8.40	1750
THV-100	1150	8.54	2.70	8.08	4.07	7.62	5.58	7.42	6.30	7.23	7.10	6.90	7.87	1150
	1300	9.65	3.00	9.14	4.60	8.62	6.30	8.39	7.10	8.17	8.10	7.80	8.91	1300
	1450	10.80	3.40	10.20	5.20	9.61	7.10	9.36	7.90	9.11	9.00	8.70	9.94	1450
	1600	11.90	3.70	11.20	5.70	10.60	7.80	10.30	8.70	10.10	9.90	9.60	11.00	1600
	1750	13.00	4.10	12.30	6.20	11.60	8.50	11.30	9.60	11.00	10.80	10.50	12.00	1750
THV-125	970	11.0	3.4	9.8	5.6	8.7	7.9	8.2	9.0	7.8	10.1	7.3	11.3	970
	1150	13.5	4.0	12.4	6.7	11.3	9.3	10.8	10.7	10.4	12.0	9.8	13.4	1150
	1300	15.6	4.5	14.5	7.5	13.4	10.5	12.9	12.1	12.5	13.6	12.0	15.1	1300
	1450	17.7	5.0	16.6	8.4	15.5	11.7	14.9	13.5	14.5	15.2	14.1	16.9	1450
	1600	19.8	5.5	18.7	9.3	17.5	13.0	17.0	14.9	16.6	16.7	16.2	18.6	1600
THV-125A	970	14.0	4.3	12.7	7.2	11.5	10.0	11.0	11.5	10.4	12.9	9.7	14.2	970
	1150	17.2	5.0	15.9	8.5	14.7	11.9	14.2	13.6	13.6	15.3	13.0	16.8	1150
	1300	19.9	5.7	18.5	9.6	17.3	13.4	16.8	15.4	16.2	17.3	15.6	19.0	1300
	1450	22.5	6.4	21.2	10.7	20.0	15.0	19.5	17.1	18.9	19.2	18.3	21.2	1450
	1600	25.2	7.0	23.9	11.8	22.6	16.5	22.1	18.9	21.5	21.2	20.9	23.4	1600
THV-150	970	16.8	4.9	15.3	8.4	13.9	11.8	13.2	13.5	12.6	15.2	11.8	17.0	970
	1150	20.6	5.8	19.0	9.9	17.6	14.0	17.0	16.0	16.4	18.0	15.6	20.1	1150
	1300	23.7	6.6	22.2	11.2	20.8	15.8	20.1	18.1	19.5	20.4	18.7	22.7	1300
	1450	26.9	7.4	25.3	12.5	23.9	17.6	23.3	20.2	22.7	22.7	21.9	25.3	1450
	1600	30.0	8.1	28.5	13.8	27.1	19.5	26.4	22.3	25.8	25.1	25.0	28.0	1600
THV-150A	850	24.9	7.1	23.1	12.0	21.6	16.9	20.8	19.3	20.0	21.7	19.1	24.1	850
	1000	29.1	8.2	27.4	13.8	25.9	19.4	25.1	22.2	24.3	25.0	23.3	27.8	1000
	1150	33.4	9.3	31.7	15.6	30.1	21.9	29.3	25.1	28.5	28.3	27.6	31.4	1150
	1250	36.6	10.4	33.9	17.6	31.7	24.8	30.5	28.3	29.4	31.9	28.0	35.4	1250
	1400	41.0	11.6	38.0	19.7	35.5	27.8	34.2	31.7	32.9	35.7	31.4	39.6	1400
THV-200	880	30.1	8.0	29.0	13.4	27.8	19.0	27.3	21.9	26.9	24.7	26.4	27.5	880
	950	32.5	8.7	31.3	14.6	30.1	20.6	29.5	23.7	29.1	26.7	28.5	29.7	950
	1050	36.0	9.5	34.6	16.1	33.2	22.8	32.6	26.2	32.1	29.4	31.5	32.8	1050
	1150	39.4	10.5	37.9	17.7	36.4	25.0	35.7	28.7	35.2	32.3	34.5	35.9	1150
	1230	42.1	11.2	40.5	19.0	38.9	26.7	38.2	30.7	37.6	34.5	36.9	38.4	1230
THV-250	880	46.9	11.7	45.3	20.3	43.8	28.9	43.1	33.1	42.4	37.5	41.6	41.8	880
	950	50.7	12.7	49.0	22.0	47.3	31.2	46.6	35.8	45.8	40.5	45.0	45.2	950
	1050	56.1	14.0	54.2	24.3	52.3	34.4	51.5	39.6	50.7	44.8	49.7	50.0	1050
	1150	61.4	15.4	59.3	26.6	57.2	37.7	56.4	43.4	55.5	49.0	54.5	54.2	1150
	1230	65.7	16.4	63.5	28.4	61.2	40.3	60.3	46.4	59.4	52.4	58.2	58.5	1230
THV-300	730	52.8	15.7	50.8	27.4	49.2	39.1	48.5	45.0	47.8	50.8	47.2	56.7	730
	800	58.4	17.1	56.4	29.9	54.8	42.6	54.1	49.0	53.4	55.4	52.7	61.8	800
	880	64.8	18.8	62.8	32.8	61.1	46.7	60.4	53.7	59.7	60.7	59.0	67.7	880
	980	72.9	20.7	70.9	36.2	69.2	51.4	68.5	59.2	67.8	66.9	67.1	74.6	980
	1080	81.1	22.9	79.1	39.9	77.4	56.7	76.7	65.3	76.0	73.8	75.3	82.3	1080
THV-300A	1180	89.3	25.0	87.3	43.6	85.6	62.0	84.9	71.3	84.1	80.6	83.4	89.9	1180
	650	74.8	21.9	72.2	39.1	69.9	55.2	69.0	63.9	68.1	72.5	67.2	81.1	650
	730	85.2	24.2	82.6	43.7	80.4	62.1	79.5	71.3	78.6	80.5	77.8	90.3	730
	800	94.4	26.5	91.8	47.2	89.7	67.9	88.8	78.3	87.8	88.6	87.0	99.0	800
	880	105.3	29.9	102.6	51.8	100.3	74.8	99.4	81.7	98.4	97.8	97.5	109.3	880
	980	117.8	33.4	115.5	58.7	113.4	82.8	111.5	96.1	109.6	109.3	107.7	122.0	980

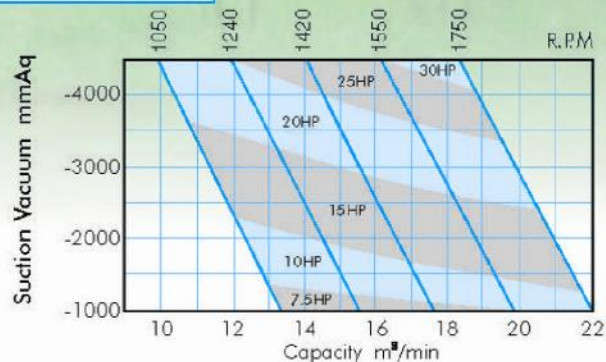
(Vacuum)

Curve Diagram of the performance of the THV-type

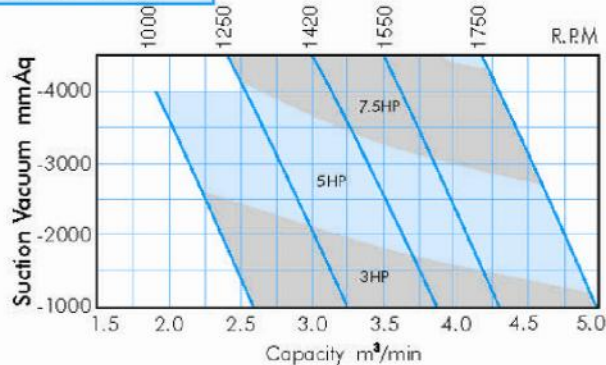
THV-50



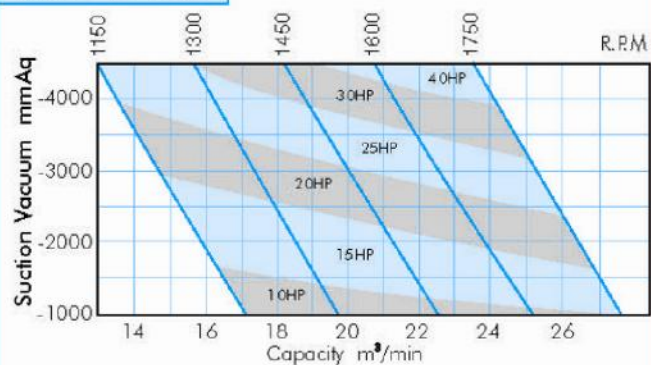
THV-125



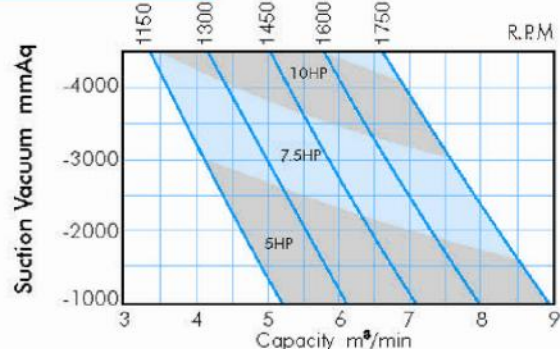
THV-65



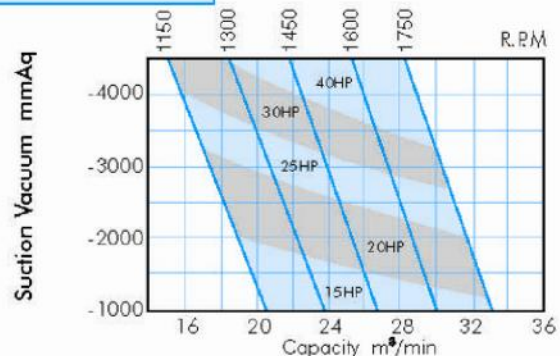
THV-125A



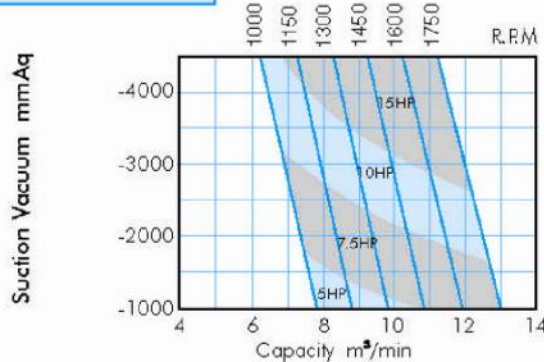
THV-80



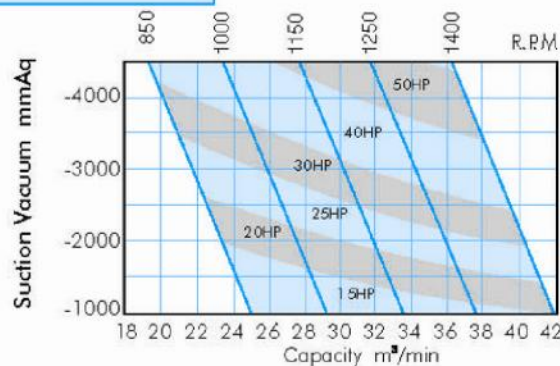
THV-150



THV-100

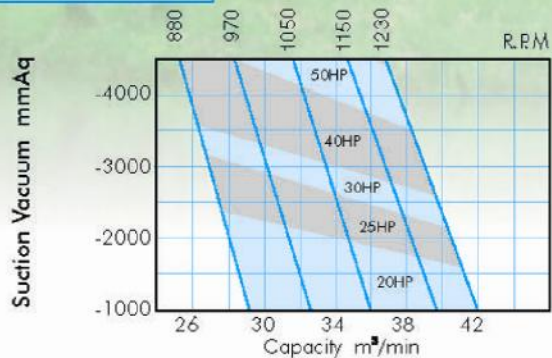


THV-150A

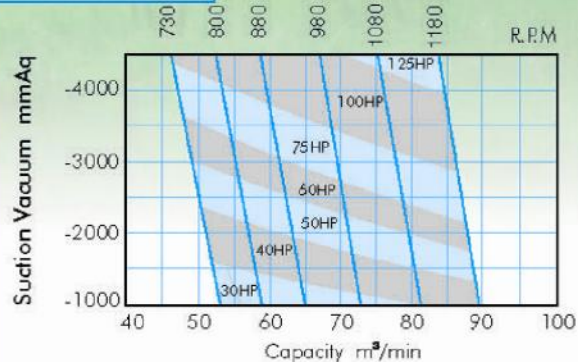


Curve Diagram of the performance of the THV-type ^(Vacuum)

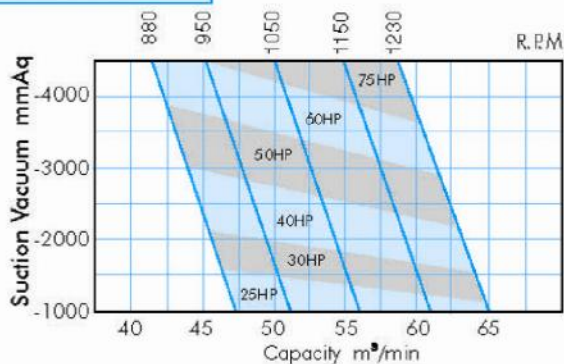
THV-200



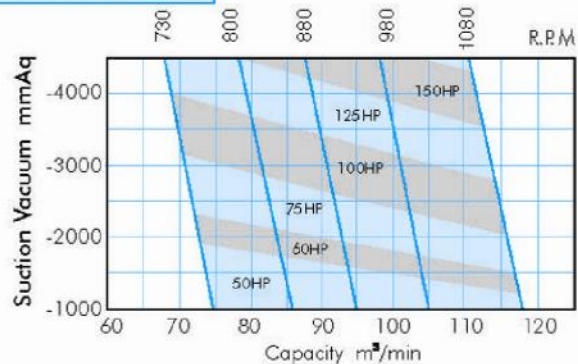
THV-300



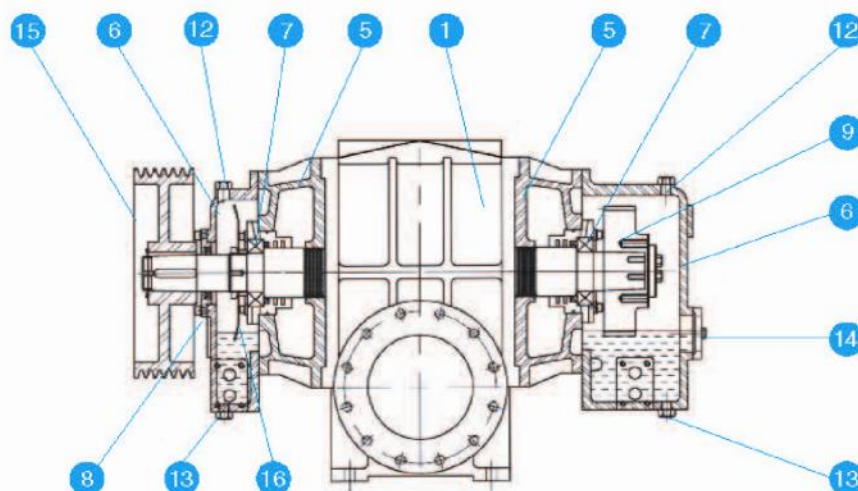
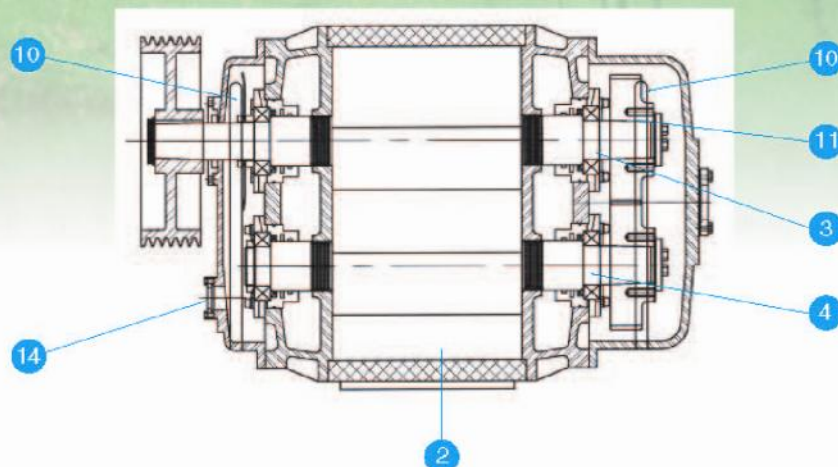
THV-250



THV-300A



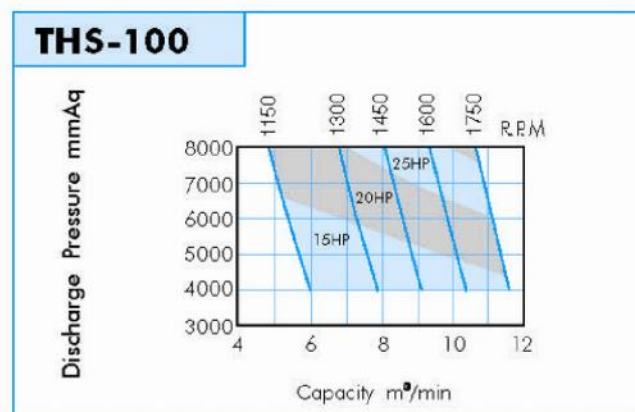
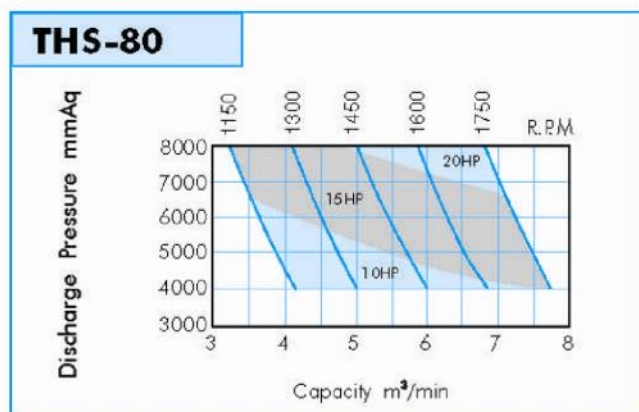
Structural Graphs for the THS-type Roots Blower



NO.	Name	Material	Q'ty	NO.	Name	Material	Q'ty
1	Casing	FC25	1	9	Gear	SNCM21	2
2	Rotor	FC25	2	10	Cool-Pipe	Brass	2
3	Drive Shaft	SCM440	1	11	Washer	S45C	2
4	Driven Shaft	SCM440	1	12	Lubrication Plug	FCMB28	2
5	Side Cover	FC25	2	13	Drain Plug	FCMB28	2
6	Oil Box	FC25	2	14	Oil Gauge	BRASS	2
7	Bearing	SUJ2	4	15	Pulley	FC20	1
8	Oil Seal	NBR	1	16	Oil Splasher	SS41	1

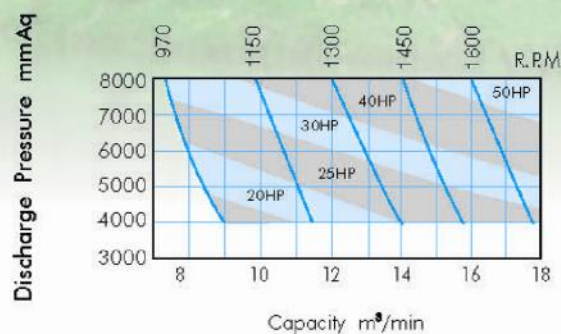
Performance Table of THS-type Roots Blower

TYPE	R.P.M	Qs (m ³ /min) P (mmAq) La (Kw)										R.P.M	Cooling Water's Capacity
		4000 mmAq		5000 mmAq		6000 mmAq		7000 mmAq		8000 mmAq			L/min
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La		
THS-80	1150	4.16	5.00	3.87	6.00	3.61	7.10	3.41	8.20	3.18	9.20	1150	8
	1300	5.05	5.60	4.76	6.80	4.51	8.00	4.30	9.20	4.08	10.40	1300	
	1450	5.96	6.30	5.66	7.60	5.41	9.00	5.20	10.30	4.98	11.60	1450	
	1600	6.85	6.90	6.55	8.40	6.30	9.90	6.09	11.40	5.87	12.60	1600	
	1750	7.75	7.60	7.45	9.20	7.20	10.80	6.99	12.40	6.77	14.00	1750	
THS-100	1150	6.19	7.10	5.82	8.60	5.56	10.10	5.16	11.60	4.98	13.10	1150	10
	1300	7.89	8.00	7.57	9.70	7.31	11.40	7.00	13.10	6.79	14.80	1300	
	1450	9.14	9.00	8.82	10.80	8.57	12.70	8.25	14.60	8.04	16.50	1450	
	1600	10.40	9.90	10.10	12.00	9.82	14.10	9.51	16.20	9.30	18.20	1600	
	1750	11.60	10.80	11.30	13.10	11.00	15.40	10.70	17.70	10.55	19.90	1750	
THS-125	970	8.9	10.2	8.4	12.5	8.0	14.8	7.6	17.1	7.2	19.4	970	12
	1150	11.5	12.1	11.0	14.8	10.6	17.5	10.1	20.2	9.8	23.0	1150	
	1300	13.5	13.6	13.0	16.7	12.6	19.8	12.2	22.9	11.9	26.0	1300	
	1450	15.6	15.2	15.1	18.7	14.7	22.1	14.3	25.5	14.0	29.0	1450	
	1600	17.7	16.8	17.2	20.6	16.8	24.4	16.4	28.2	16.1	32.0	1600	
THS-125A	970	11.6	13.0	11.1	15.7	10.6	18.5	10.1	21.4	9.8	24.2	970	15
	1150	14.8	15.4	14.3	18.6	13.8	22.0	13.3	25.4	13.0	28.7	1150	
	1300	17.5	17.4	16.9	21.0	16.5	24.8	16.0	28.7	15.6	32.4	1300	
	1450	20.1	19.4	19.6	23.4	19.1	27.7	18.6	32.0	18.3	36.2	1450	
	1600	22.8	21.4	22.3	25.9	21.8	30.6	21.3	35.3	20.9	39.9	1600	
THS-150A	850	17.5	18.4	16.6	22.6	16.1	26.7	16.0	28.2	15.7	31.8	850	18
	1000	21.7	21.7	20.9	26.6	20.3	31.4	20.1	33.4	19.8	37.7	1000	
	1150	25.9	22.8	25.2	30.6	24.5	36.1	23.6	37.8	23.2	42.6	1150	
	1250	28.8	27.2	28.0	33.3	27.3	39.3	27.0	42.1	26.7	47.5	1250	
	1400	33.0	30.4	32.3	37.3	31.6	44.0	30.4	46.5	30.1	52.5	1400	
THS-200	850	24.3	23.7	23.5	29.1	22.9	34.6	22.3	39.7	21.7	45.1	850	20
	950	28.1	26.6	27.3	32.6	26.7	38.7	26.1	44.4	25.5	50.5	950	
	1050	31.9	29.5	31.1	36.1	30.5	42.8	29.9	49.1	29.3	55.9	1050	
	1150	35.7	32.3	34.8	39.5	34.2	46.8	33.6	53.8	33.1	61.2	1150	
	1250	39.5	35.2	38.6	43.0	38.0	50.9	37.4	58.5	36.9	66.6	1250	
THS-250	850	39.1	35.9	38.1	44.2	37.1	52.3	36.2	60.3	35.3	68.6	850	25
	950	44.9	40.1	43.9	49.4	42.9	58.4	42.0	67.4	41.1	76.7	950	
	1050	50.7	44.3	49.7	54.6	48.7	64.5	47.8	74.5	46.9	84.8	1050	
	1150	56.5	48.5	55.4	59.7	54.4	70.6	53.5	81.6	52.6	92.8	1150	
	1250	62.3	52.7	61.2	64.9	60.2	76.7	59.3	88.7	58.4	100.9	1250	
THS-300	730	47.8	50.8	46.5	62.5	45.4	74.8	44.3	85.8	43.5	97.6	730	30
	800	53.4	55.4	52.0	68.1	50.9	81.6	49.8	93.6	49.0	106.4	800	
	880	59.7	60.7	58.3	74.6	57.2	89.4	56.1	102.5	55.2	116.5	880	
	980	67.8	66.9	66.4	82.3	65.2	98.6	64.1	113.1	63.2	128.8	980	
	1080	76.0	73.8	74.6	90.8	73.4	108.7	72.3	124.9	71.4	141.7	1080	
THS-300A	650	68.1	72.5	66.3	89.7	64.8	97.8	63.2	123.0	61.8	139.2	650	35
	730	78.6	80.5	76.9	100.0	75.3	118.5	73.7	138.0	72.4	156.4	730	
	800	87.8	88.6	86.1	109.3	84.5	130.0	82.9	150.7	81.5	171.4	800	
	880	98.4	97.8	96.6	120.8	95.1	143.8	93.5	165.6	92.1	188.6	880	
	980	109.6	109.3	108.9	134.6	108.1	159.9	106.6	185.2	105.2	210.5	980	

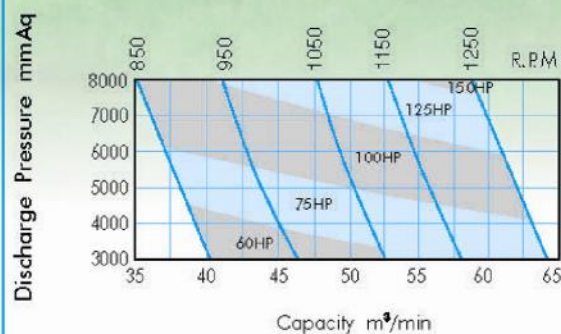
Curve Diagram of the performance of the THS-type


Curve Diagram of the performance of the THS-type

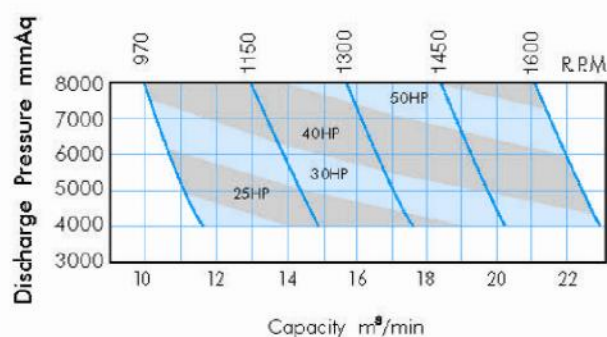
THS-125



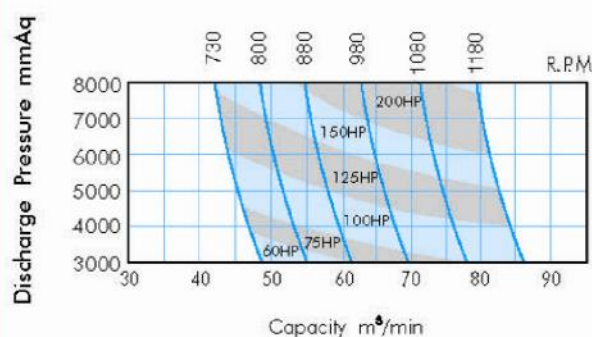
THS-250



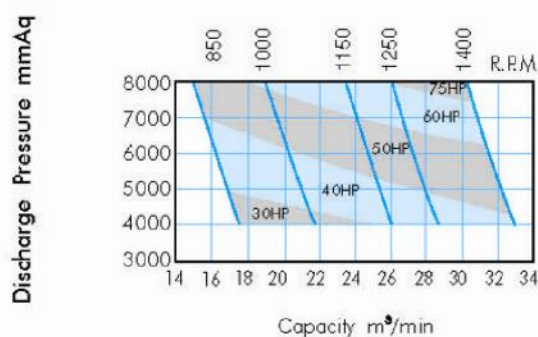
THS-125A



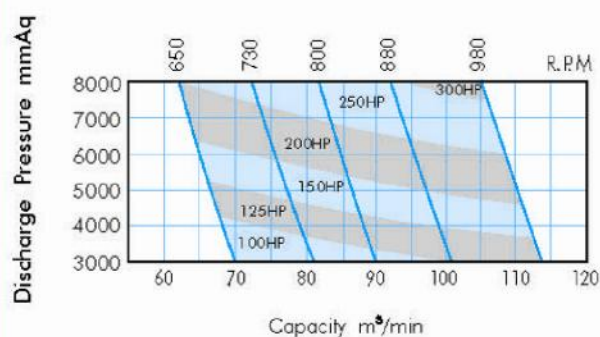
THS-300



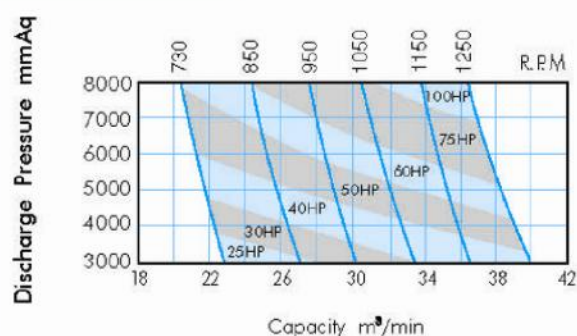
THS-150A



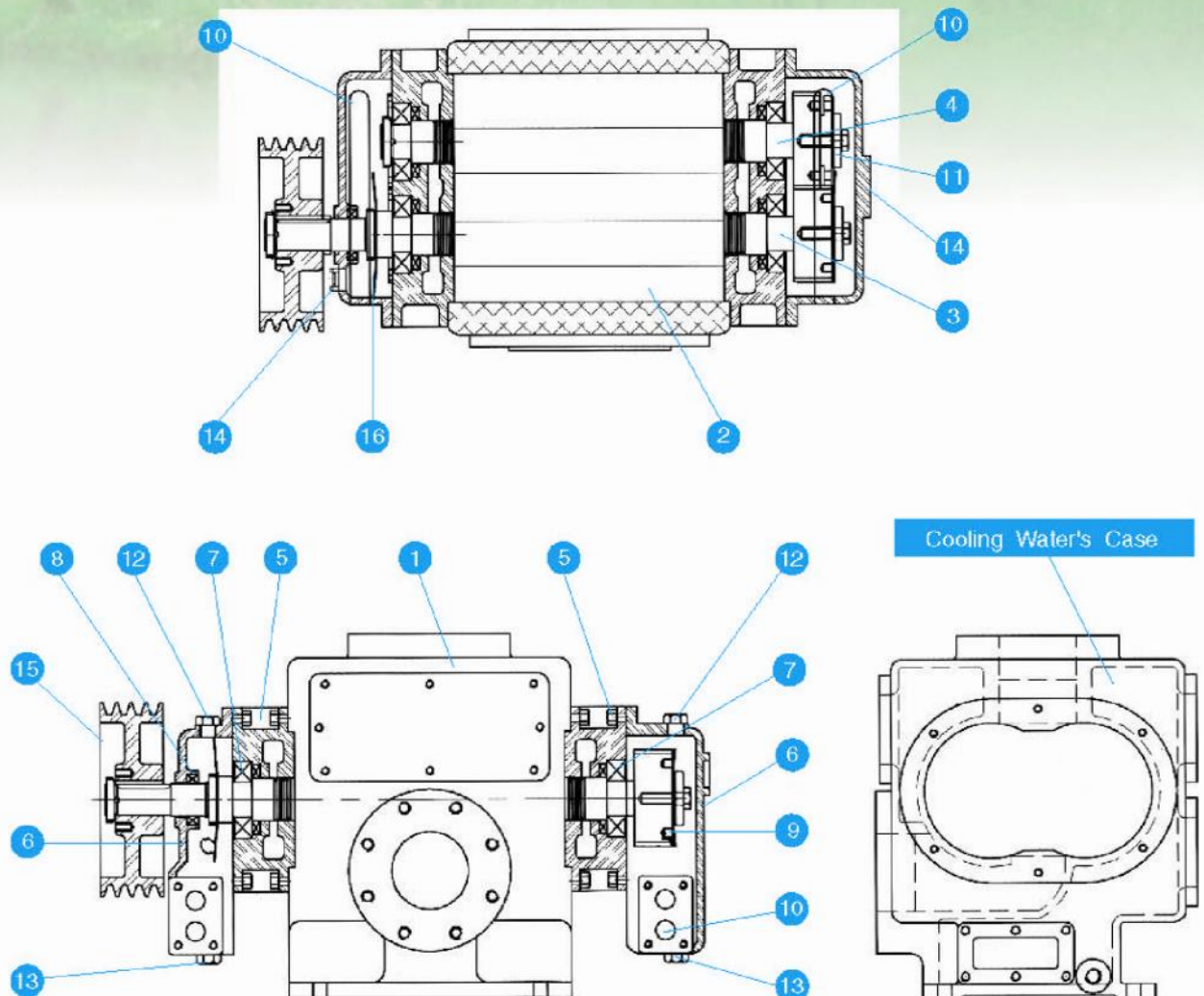
THS-300A



THS-200



Structural Graphs for the THW-type Roots Blower



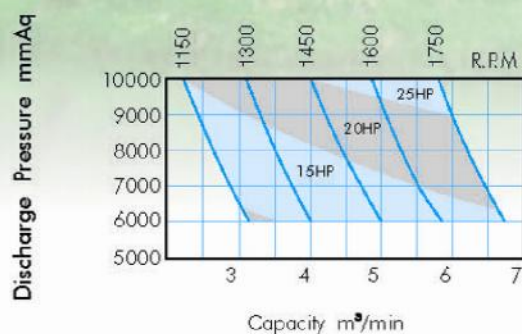
NO.	Name	Material	Q'ty	NO.	Name	Material	Q'ty
1	Casing	FC25	1	9	Gear	SNM21	2
2	Rotor	FC25	2	10	Cool-Pipe	Brass	2
3	Drive Shaft	SCM440	1	11	Washer	S45C	2
4	Driven Shaft	SCM440	1	12	Lubrication Plug	FCMB28	2
5	Side Cover	FC25	2	13	Drain Plug	FCMB28	2
6	Oil Box	FC25	2	14	Oil Gauge	BRASS	2
7	Bearing	SUJ2	4	15	Pulley	FC20	1
8	Oil Seal	NBR	1	16	Oil Splasher	SS41	1

Performance Table of THW-type Roots Blower

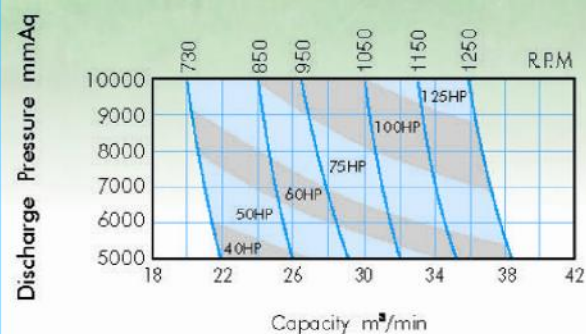
TYPE	R.P.M	Qs (m³/min)				P (mmAq)				La (Kw)				R.P.M	Cooling Water's Capacity
		6000 mmAq		7000 mmAq		8000 mmAq		9000 mmAq		10000mmAq		L/min			
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La				
THW-80	1150	3.61	7.10	3.41	8.20	3.18	9.20	2.95	10.50	2.75	11.40	1150	8		
	1300	4.51	8.00	4.30	9.20	4.08	10.40	3.84	11.60	3.65	12.80	1300			
	1450	5.41	9.00	5.20	10.30	4.98	11.60	4.64	13.00	4.44	14.30	1450			
	1600	6.30	9.90	6.09	11.40	5.87	12.80	5.43	14.30	5.33	15.90	1600			
	1750	7.20	10.80	6.99	12.40	6.77	14.00	6.33	15.60	6.23	17.20	1750			
THW-100	1100	5.52	10.10	5.16	11.60	4.92	13.10	3.92	12.60	3.76	14.10	1100	10		
	1300	7.31	11.40	7.00	13.10	6.79	14.80	6.43	16.50	6.27	18.20	1300			
	1450	8.57	12.70	8.25	14.60	8.04	16.50	7.86	18.40	7.51	20.30	1450			
	1600	9.82	14.10	9.51	16.20	9.30	18.20	8.94	20.40	8.78	22.30	1600			
	1750	11.00	15.40	10.70	17.70	10.55	19.90	10.20	22.30	10.10	24.00	1750			
THW-125A	970	10.6	18.5	10.1	21.4	9.8	24.2	9.1	27.1	8.9	29.9	970	15		
	1150	13.8	22.0	13.3	25.4	13.0	28.7	12.3	32.2	12.1	35.4	1150			
	1300	16.5	24.8	16.0	28.7	15.6	32.4	15.0	36.4	14.8	40.0	1300			
	1450	19.1	27.7	18.6	32.0	18.3	36.2	17.6	40.6	16.5	44.7	1450			
	1600	21.8	30.6	21.3	35.3	20.9	39.9	20.3	44.7	20.1	49.2	1600			
THW-150A	850	16.1	26.7	16.0	28.2	15.7	31.8	14.2	43.7	13.6	43.2	850	18		
	1000	20.3	31.4	20.1	33.4	19.8	37.7	18.4	46.0	17.9	50.9	1000			
	1150	24.5	36.1	23.6	37.8	23.2	42.6	22.7	52.9	22.1	58.5	1150			
	1250	27.3	39.3	27.0	42.1	26.7	47.5	25.5	57.5	24.9	63.6	1250			
	1400	31.6	44.0	30.4	46.5	30.1	52.5	29.7	64.4	29.1	71.3	1400			
THW-200	850	22.9	34.6	22.3	39.7	21.7	45.1	21.0	50.2	20.6	55.6	850	20		
	950	26.7	38.7	26.1	44.4	25.5	50.5	24.8	56.2	24.4	62.3	950			
	1050	30.5	42.8	29.9	49.1	29.3	55.9	28.6	62.2	28.2	69.0	1050			
	1150	34.2	46.8	33.6	53.8	33.1	61.2	32.3	68.1	32.0	75.6	1150			
	1250	38.0	50.9	37.4	58.5	36.9	66.6	36.1	74.1	35.8	82.3	1250			
THW-250	850	37.1	52.3	36.2	60.3	35.3	68.6	34.5	77.0	33.6	85.0	850	25		
	950	42.9	58.4	42.0	67.4	41.1	76.7	40.3	86.0	39.4	95.0	950			
	1050	48.7	64.5	47.8	74.5	46.9	84.8	46.1	95.0	45.2	105.0	1050			
	1150	54.4	70.6	53.5	81.6	52.6	92.8	51.8	104.0	50.9	115.0	1150			
	1250	60.2	76.7	59.3	88.7	58.4	101.0	57.6	113.0	56.7	125.0	1250			
THW-300A	650	64.8	97.8	63.2	123.0	61.8	139.2	60.4	156.4	59.0	173.6	650	35		
	730	75.3	118.5	73.7	138.0	72.4	156.4	70.9	176.0	69.6	185.2	730			
	800	84.5	130.0	82.9	150.7	81.5	171.4	80.2	192.1	78.9	212.8	800			
	880	95.1	143.8	93.5	165.6	92.1	188.6	90.8	211.6	89.5	234.6	880			
	980	108.1	159.9	106.6	185.2	105.2	210.5	103.9	235.8	102.6	261.1	980			

Curve Diagram of the Performance of the THW-type

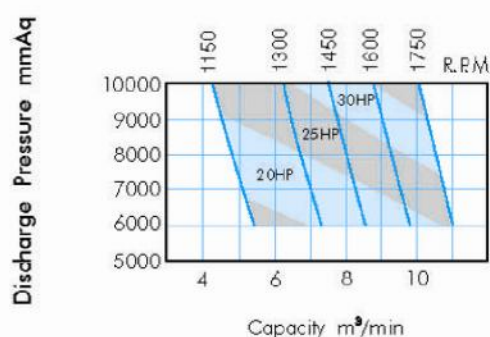
THW-80



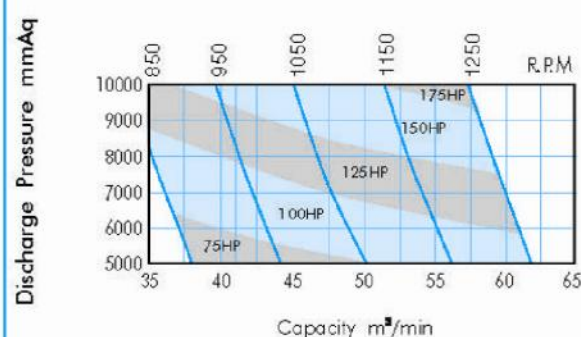
THW-200



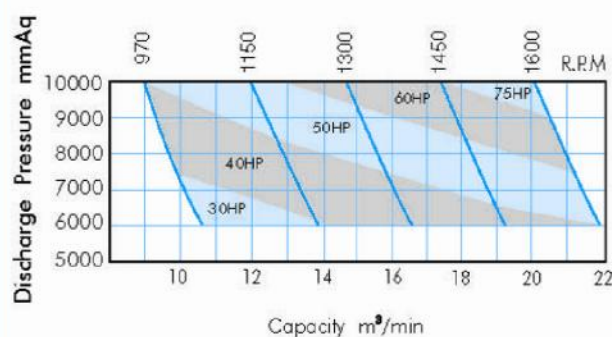
THW-100



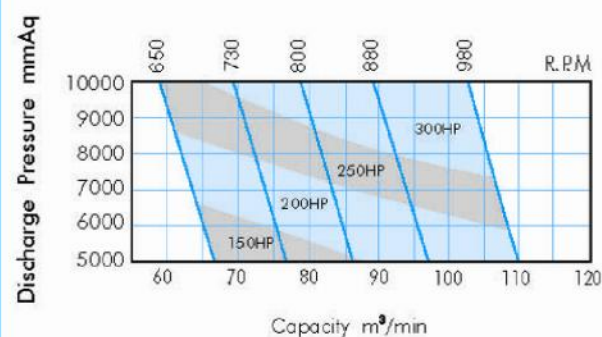
THW-250



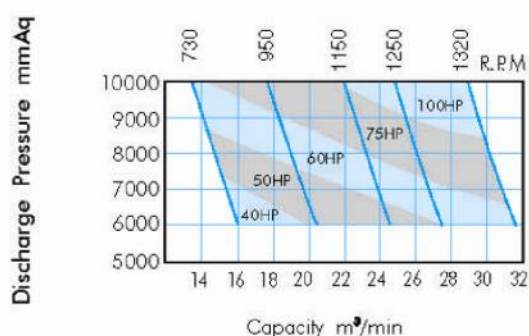
THW-125A



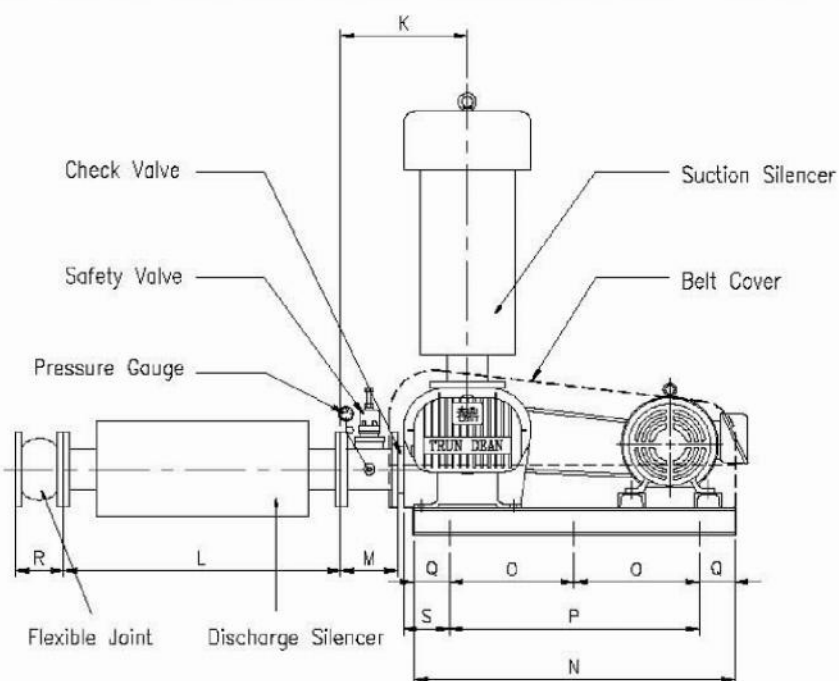
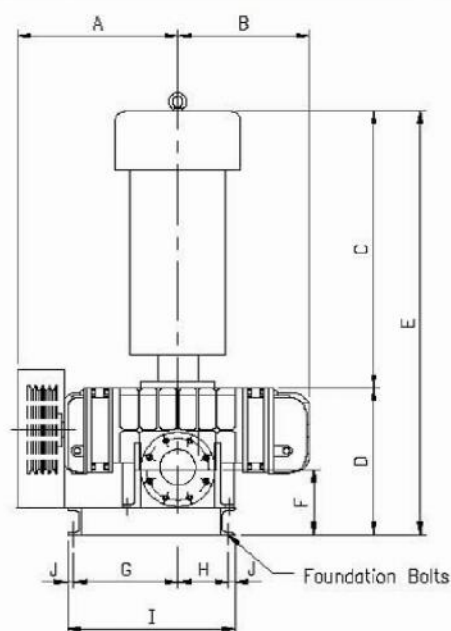
THW-300A



THW-150A



Outside Dimensions of the TH-type

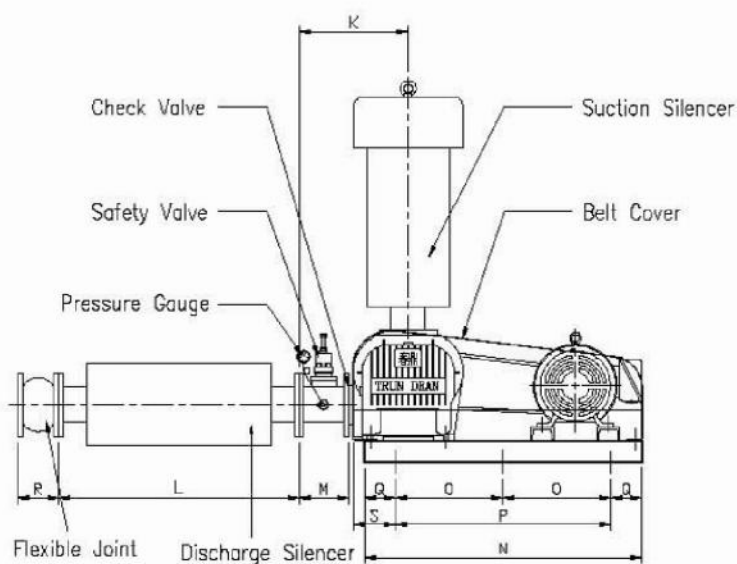
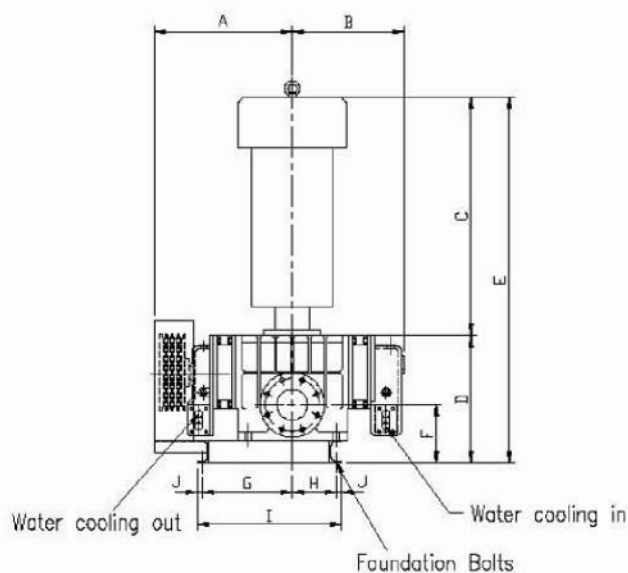


Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	重量1	重量2
TH-40	190	195	525	237	762	185	177	117	330	18	301	525	85	500		400	50	95	50	28	71
TH-50	330	265	765	337	1102	170	312	122	470	18	326	780	160	700		600	50	105	80	90	160
TH-65	350	310	780	337	1117	170	332	102	470	18	326	780	160	700		600	50	115	80	105	185
TH-80	370	320	780	410	1190	177	292	142	470	18	380	780	185	900		700	100	130	120	170	285
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	625	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

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

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

Outside Dimensions of the THS-type

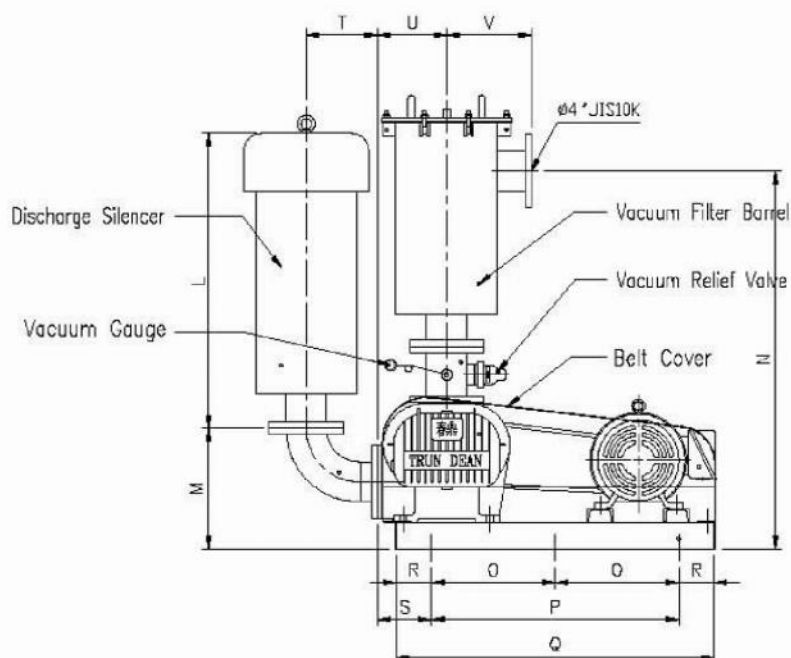
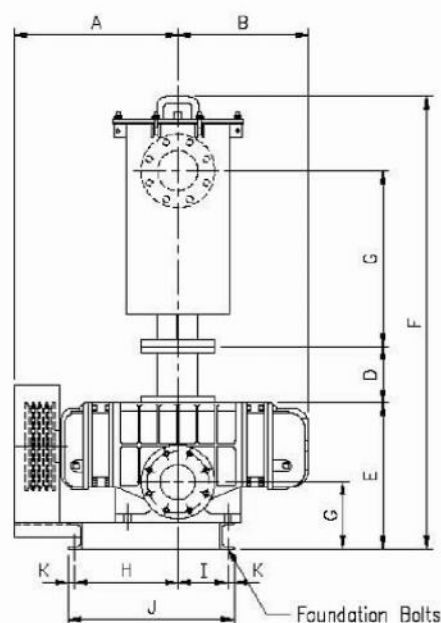


Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	重量1	重量2
THS-80	370	320	780	410	1190	177	292	142	470	18	380	780	185	900		700	100	130	120	170	265
THS-100	450	370	780	415	1195	190	292	142	470	18	380	780	185	900		700	100	135	120	185	300
THS-125	412	382	1395	530	1925	230	323	233	600	22	451	1405	200	1100		900	100	170	135	315	530
THS-125A	452	422	1395	530	1925	230	288	268	600	22	451	1405	200	1100		900	100	170	135	350	565
THS-150A	527	507	1395	633	2028	280	400	158	600	22	514	1405	200	1400		1200	100	180	155	625	875
THS-200	535	505	1550	860	2410	380	510	390	950	25	583	1410	200	1700	750	1500	100	205	150	810	1190
THS-250	630	600	1550	860	2410	415	604	296	950	25	633	1410	250	1700	750	1500	100	240	147	970	1380
THS-300	761	680	1550	915	2465	432	625	375	950	25	633	1410	250	1700	750	1500	100	260	179	1120	1740
THS-300A	798	645	1550	995	2545	435	740	510	1300	25	732	1410	250	2200	1000	2000	100	260	180	1575	2220

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

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

Outside Dimensions of the THV-type

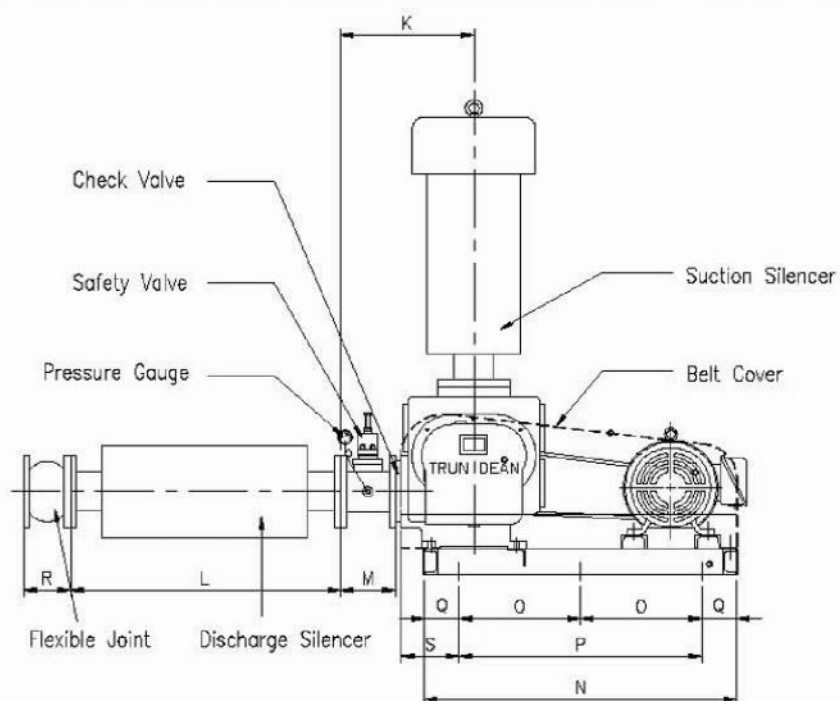
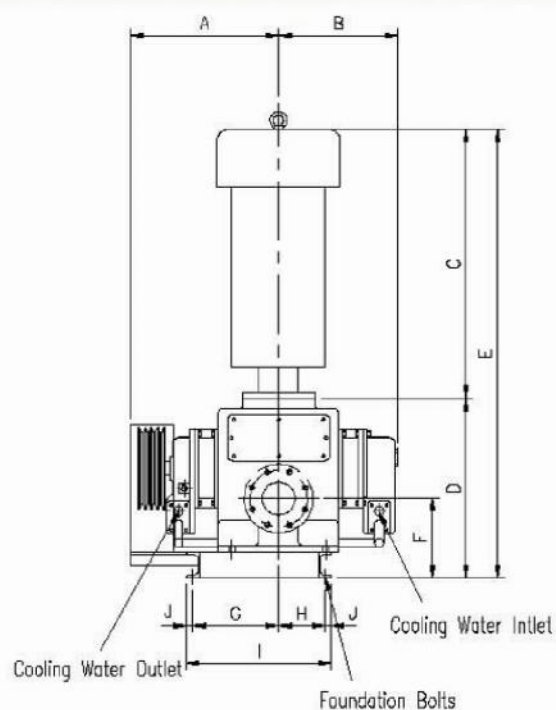


Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	重量1	重量2
THV-50	330	265	340	160	337	977	170	312	122	470	18	780	246	837		600	700	50	80	151	150	216	90	165
THV-65	350	310	430	160	337	1077	170	332	102	470	18	780	265	927		600	700	50	80	195	150	218	105	192
THV-80	370	320	500	185	410	1275	177	292	142	470	18	780	307	1095		700	900	100	120	202	179	218	170	274
THV-100	450	370	500	185	415	1280	190	292	142	470	18	780	337	1100		700	900	100	120	202	179	238	185	307
THV-125	412	382	560	200	530	1490	230	323	233	600	22	1405	421	1290		900	1100	100	135	191	235	280	315	512
THV-125A	452	422	560	200	530	1490	230	288	268	600	22	1405	421	1290		900	1100	100	135	191	235	280	350	547
THV-150	507	477	580	200	545	1505	245	343	213	600	22	1405	474	1305		900	1100	100	135	229	235	282	375	584
THV-150A	527	507	560	200	633	1593	280	400	156	600	22	1405	484	1393		1200	1400	100	155	229	295	282	625	859
THV-200	535	505	690	200	880	1990	380	510	390	950	25	1410	685	1750	750	1500	1700	100	150	305	356	337	810	1163
THV-250	630	600	820	250	880	2240	415	604	296	950	25	1410	821	1930	750	1500	1700	100	147	381	355	340	970	1353
THV-300	761	680	820	250	915	2295	432	525	375	950	25	1410	880	1985	750	1500	1700	100	179	450	351	375	1120	1693
THV-300A	798	645	820	250	995	2375	435	740	510	1300	25	1410	885	2085	1000	2000	2200	100	180	450	450	375	1575	2173

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

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

Outside Dimensions of the THW-type



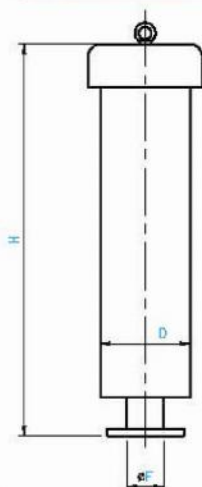
Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	重量1	重量2
THW-80	450	320	780	545	1325	240	292	142	470	18	410	780	185	900		700	100	130	155	230	330
THW-100	450	370	780	545	1325	240	292	142	470	18	410	780	185	900		700	100	135	155	277	390
THW-125A	505	475	1395	630	2025	275	288	268	600	22	496	1405	200	1100		900	100	170	180	490	705
THW-150A	582	540	1395	710	2105	280	400	156	600	22	558	1405	200	1400		1200	100	180	203	750	1005
THW-200	570	505	1550	880	2430	330	510	390	950	25	633	1410	200	1700	750	1500	100	205	205	920	1295
THW-250	685	600	1550	855	2435	355	804	296	950	25	683	1410	250	1700	750	1500	100	240	200	1140	1550

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

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

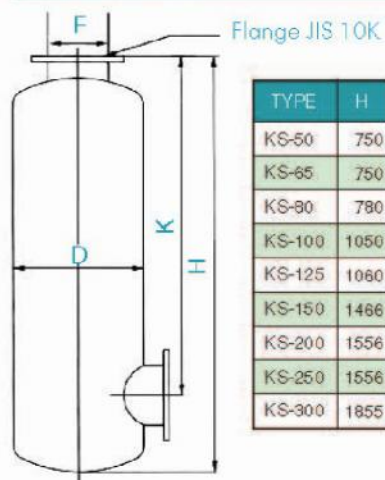
Dimensions of the Accessories

Suction Silencer



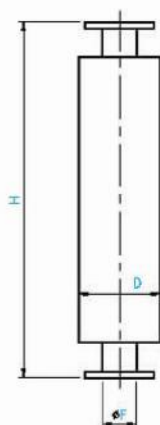
Type	H	D	F	Wt.(kg)
SS-40	525	105	40	8
SS-50	765	165	50	14
SS-65	780	216	65	22
SS-80	780	216	80	25
SS-100	780	288	100	35
SS-125	1395	338	125	63
SS-150	1395	388	150	80
SS-200	1550	620	200	175
SS-250	1550	750	250	228
SS-300	1550	750	300	240

Suction Silencer



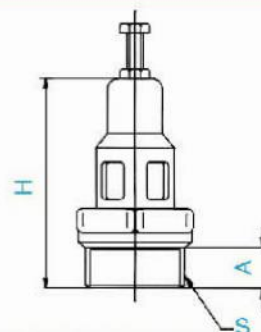
TYPE	H	D	F	K	Wt.(kg)
KS-50	750	267	50	600	36
KS-65	750	267	65	600	38
KS-80	780	267	80	600	40
KS-100	1050	356	100	855	60
KS-125	1060	356	125	865	63
KS-150	1466	356	150	1230	106
KS-200	1556	470	200	1260	180
KS-250	1556	470	250	1280	200
KS-300	1855	470	300	1515	230

Discharge Silencer



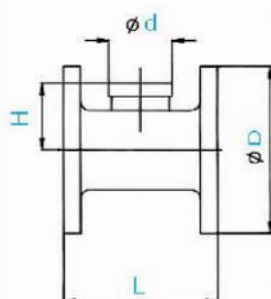
Type	H	D	F	Wt.(kg)
DS-40	525	105	40	8
DS-50	780	165	50	17
DS-65	780	216	65	25
DS-80	780	216	80	27
DS-100	780	288	100	36
DS-125	1405	338	125	70
DS-150	1405	388	150	82
DS-200	1410	620	200	166
DS-250	1410	750	250	228
DS-300	1410	750	300	240

Safety Valve



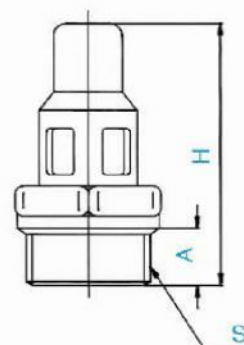
TYPE	S	A	H	適用機型	Wt (kg)
SV-38	PT1.5"	26	132	TH 50,65	1
SV-50	PT2"	28	180	TH 80,100,125	3
SV-80	PT3"	36	260	TH 150,200,250,300	7

Short Pipe



TYPE	D	d	L	H	Wt.(kg)
TJ-50	155	1.5"	160	70	6
TJ-65	175	1.5"	160	70	7
TJ-80	185	2"	185	80	8
TJ-100	210	2"	185	100	9
TJ-125	250	2"	185	105	15
TJ-150	280	3"	200	115	18
TJ-200	330	3"	200	145	28
TJ-250	400	3"	250	185	43
TJ-300	445	3"	320	185	55

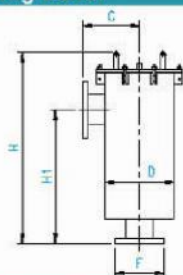
Vacuum Safety Valve



TYPE	S	A	H	適用機型	Wt (kg)
VB-50	PT2"	20	110	THV 50,60,80,100,125,150,200,250	1.2

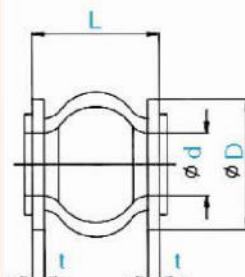
Dimensions of the Accessories

Vacuum Filtering Barrel



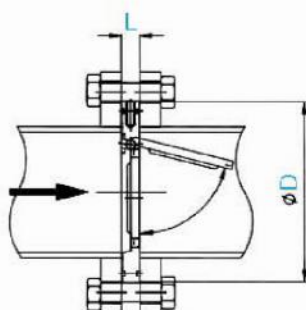
Type	C	D	F	H	H1	Wt.(kg)
SR-50	216	250	50	480	340	21
SR-65	218	260	65	580	430	23
SR-80	218	260	80	580	500	33
SR-100	238	280	100	580	500	35
SR-125	280	370	125	760	560	44
SR-150	282	370	150	760	560	46
SR-200	337	480	200	830	680	76
SR-250	340	480	250	1130	820	76
SR-300	375	550	300	1130	820	105

Flexible Joint



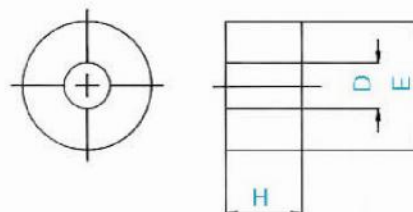
TYPE	D	d	L	t	Wt.(kg)
FJ-50	155	50	105	18	4
FJ-65	175	65	115	18	5
FJ-80	185	80	130	18	5.5
FJ-100	210	100	135	19	6
FJ-125	250	125	170	19	10
FJ-150	280	150	180	19	13
FJ-200	330	200	205	24	14
FJ-250	400	250	240	28	18
FJ-300	445	300	260	28	21

Check Valve



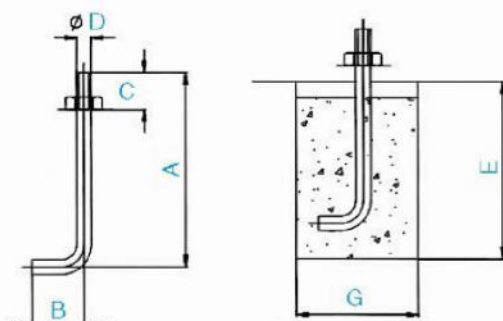
Type	D	L
SS-40	54	166
SS-50	106	16
SS-65	125	16
SS-80	133	16
SS-100	158	16
SS-125	189	16
SS-150	196	19
SS-200	266	26
SS-250	332	26
SS-300	375	32

Vibration-proof Cushion



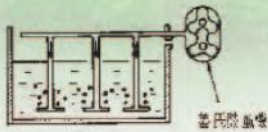
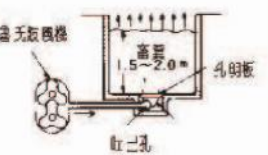
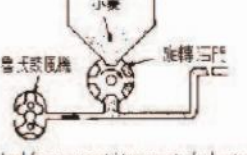
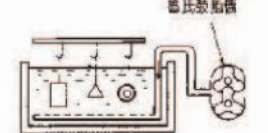
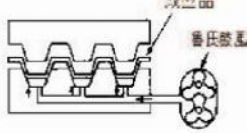
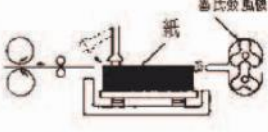
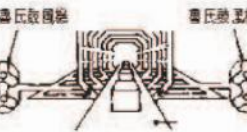
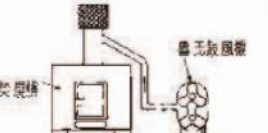
TYPE	E	D	H	適用機型
TVP-102	75	1/2"	25	TH 50,65
TVP-103	100	7/8"	25	TH 80,100,125,150
TVP-104	150	1"	50	TH 200,250
TVP-105	200	1"	50	TH 300,350

Foundation Bolts

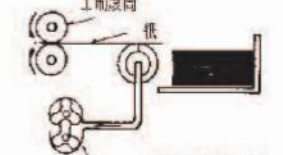
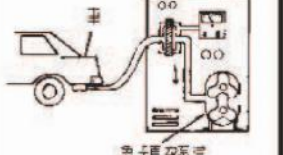
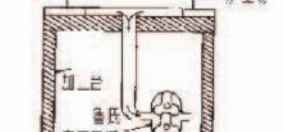
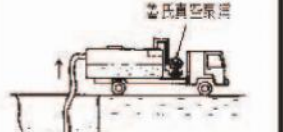


TYPE	A	B	C	D	E	F	G	適用機型
1/2"	150	30	30	1/2"	165	5	70X70	TH 50,65,80,100
5/8"	200	45	45	5/8"	245	5	100X100	TH 125,150
3/4"	250	55	60	3/4"	325	5	120X120	TH 200,250,300

Applications of the pressure Conveyance

Waste Water Treatment  Used to agitate sediment and for purification at water treatment plants.	Oxygen Supply for Farming Ponds  Used for underwater enzyme supply in comparatively shallow ponds.
Barnyard Manure, Composted Manure Fertilizing  Used to hast fermentation by feeding air.	Transport of Grain  Used for pneumatic transport of wheat or other grain separated by a rotary valve.
Plating Tank  為了電鍍品質化，向槽內送空氣以循環電解物	Die Casting Mold  Used to remove the stamped work-piece from the die.
Paper-Feeding for Printer  Operations are simplified by using discharge air to separate, align, and feed the paper.	Conveying-Belt Blowing Dry  小型輸送帶吹風乾機
Incinerator  The blower can help boost burn performance and promote exhaust gas removal.	Therapeutic Bath Tub  Widely used in hospitals and hotels for healthy bath aeration.

Applications of Vacuum

Particle Conveyance  可以用來輸送米，麥，大豆等粉粒體	Dehydration  造紙廠纖維廠的脫水工程
Paper-Feeding for Printer  把紙張保持在滾速滾筒上	Smog Testing  檢查汽車廢氣瓦斯含量
Filter  真空吸引可縮短通過濾器的時間	Absorption Transporter  用於一般工業如紡織廠，染整廠，纖維廠之集塵機（可磨粉用）
Reprocess Goods Absorption-Maintenance  木片、塑膠等非磁性小物品固定於加工台	Vacuum Mud-sucking Truck  膠狀污泥、廢泥的清除，粉粒體的輸送等
Nuclear Factory  利用於核子廠放射線之取樣或廢氣排洩	Absorption Transporter  以顯著搬運較輕的物品不必安裝可省時間

Units-Conversion

Pressure

	mbar	Pa	atm	lbf/in ²	kgf/cm ²	in Hg	mmAq
1 mbar	1	10 ²	9.869X10 ⁻⁴	1.45X10 ⁻²	1.02X10 ⁻³	2.953X10 ⁻²	10.197
1 Pa	0.01	1	9.87X10 ⁻⁶	1.45X10 ⁻⁴	1.02X10 ⁻⁶	2.953X10 ⁻⁴	0.102
1 atm	1.013X10 ³	1.013X10 ⁵	1	14.7	1.033	29.92	1.033X10 ⁴
1 lbf/in ²	68.95	68.95X10 ²	6.805X10 ⁻²	1	7.03X10 ⁻²	2.036	7.03X10 ²
1 kgf/cm ²	9.807X10 ²	9.807X10 ⁴	0.968	14.223	1	28.96	10 ⁴
1 in Hg	33.86	33.86X10 ³	3.342X10 ⁻²	0.491	3.45X10 ⁻²	1	3.45X10 ²
1 mmAq	9.807X10 ⁻²	9.807	9.677X10 ⁻⁶	1.42X10 ⁻³	10 ⁻⁴	2.896X10 ⁻²	1

$$1\text{Pa}=0.102\text{mmAq}$$

$$1\text{psi}=703\text{mmAq}$$

壓力常用換算公式

$$1\text{mbar}=10.197\text{mmAq}$$

$$1\text{Torr}=133.3\text{Pa}$$

$$1\text{mmHg}=13.6\text{mmAq}$$

$$1\text{Torr}=1.333\text{mbar}$$

Capacity

	m ³ /min(amn)	m ³ /hr(amh)	Q /min(cg m)	ft ³ /min(cfm)
1m ³ /min	1	60	1000	35.31
1m ³ /hr	0.017	1	16.67	0.589
1g ³ /min	0.001	0.06	1	0.035
1ff ³ /min	0.028	1.699	28.32	1

Power

	kg-m/sec	KW	HP	PS
1 kg-m/sec	1	0.01	0.013	0.013
1 KW	101.97	1	1.341	1.360
1 HP	76.038	0.746	1	1.014
1 PS	75	0.736	0.986	1

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 bleeds 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.

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 viscousness 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.

科技研發 與時俱進 開創新局



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



葉輪式離心泵浦結構改良



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



嚴謹的測試品質・提供最佳品質



完善的組立生產線



完整的測試品質・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



Specializing in the manufacturing of blowers; wide varieties of products; and special order with specific designs.

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