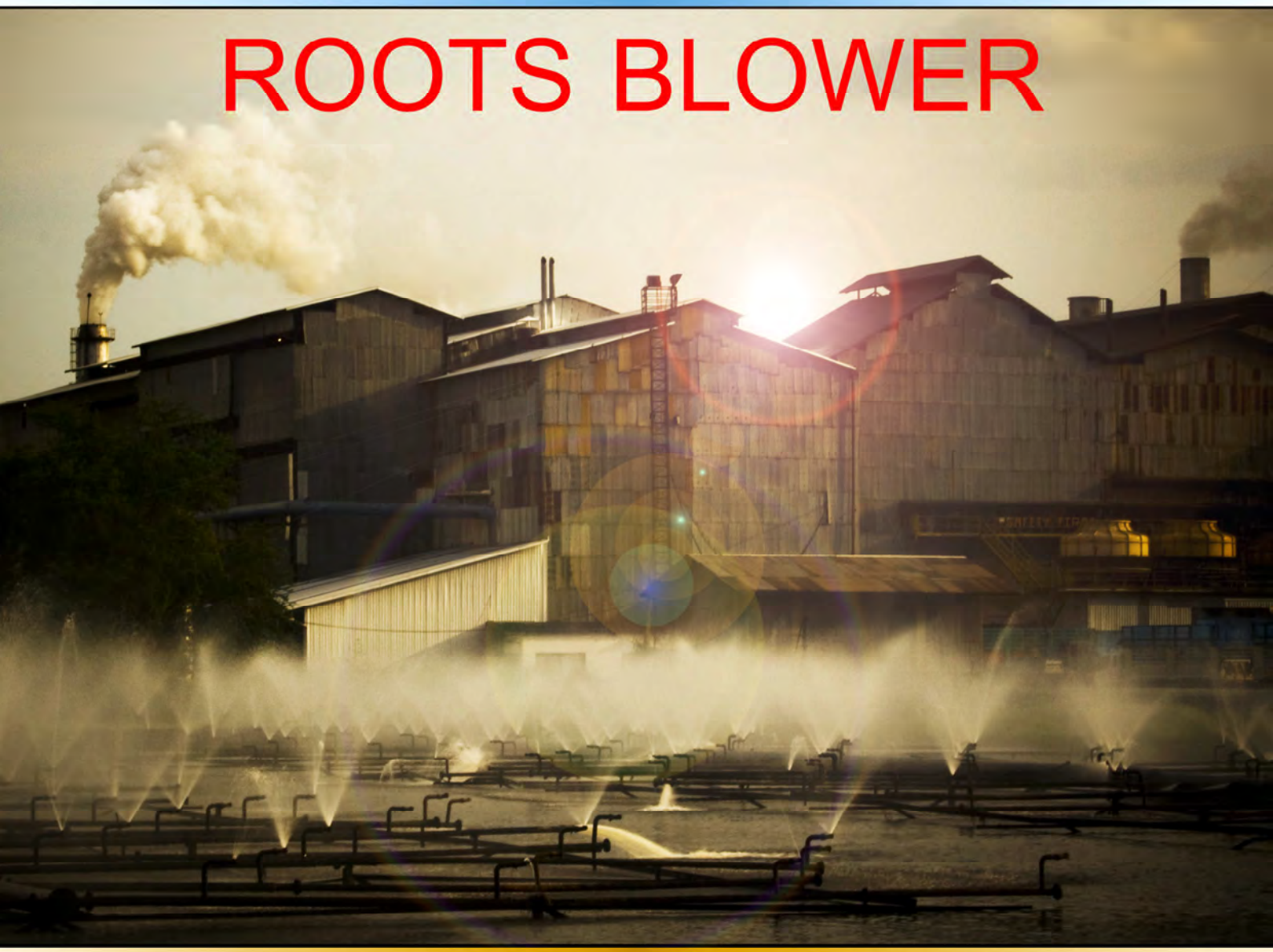
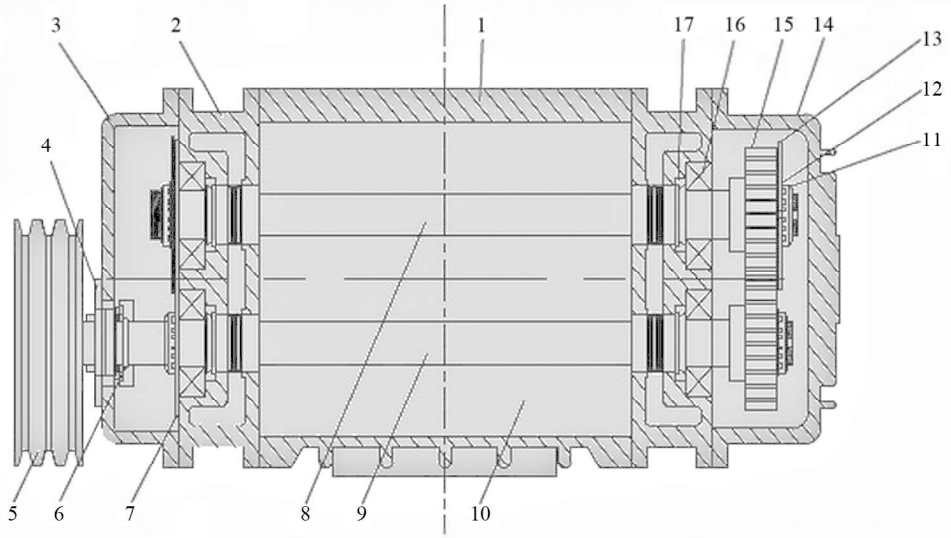
AIRFLOW

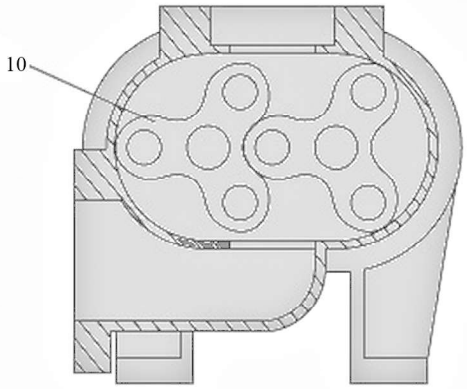
ROOTS BLOWER

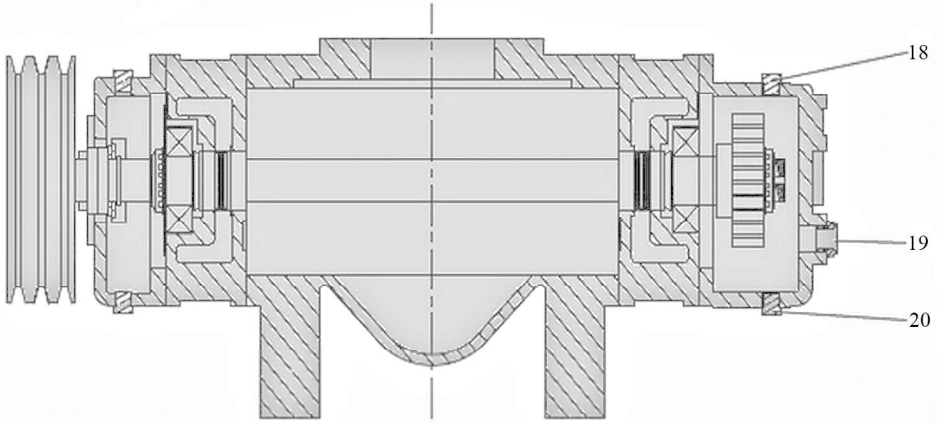




STRUCTURE AND MATERIAL LIST







PART MATERIAL TABLE

NO.	Name	Material	Number
1	Blower body	HT250	1
2	Bearing housing	HT250	2
3	Oil box	HT250	1
4	Seal housing	HT200	1
5	Pulley	HT250	1
6	Framework oil seal	VITON	1
7	Bearing washer	Q235	2
8	Driven shaft	45	1
9	Drive shaft	45	1
10	Impeller	HT250	2
11	Lock nut	45	5
12	Washer	Q235	4
13	Oil splash	Q235	2
14	Gear box	HT250	1
15	Gear	SCM435	2
16	Bearing	SUJ2	4
17	V-Ring	NBR or VITON	4
18	Lubrication plug	45	2
19	Oil gauge	Duralumin	2
20	Purge plug	45	2

Theory

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

Features

- Wide range of capacity and pressure.
  Calibre: 40mm-300mm (1.5"-12")
  Capacity: 0.36-160m³/min (12-5700CFM)
  Pressure: The pressure of one-stage AIRFLOW type up to 8000mmAq (0.8kgf/cm²)
- Delivers completely oil-free air.
- Low oscillation and low noise by dynamic balance which revised by computer.
- Smaller change in capacity against change in pressure.
- Highest efficiency due to special impeller design, great air-delivery low power.
- Standardized product with strict quality control.
- Our rotor has used the most advanced technic, one time for all working process of the six-shaft method, to enhance the

PERFORMANCE PARAMETER TABLE

Qs = Inlet air flow (m^3/min).
La = Power (kW). (S.F. 1.15)

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
AB-20	2000	0.24	0.26	0.22	0.31	0.20	0.36	0.18	0.40	-	-	-	-	-	-	-	-
	2250	0.28	0.30	0.26	0.36	0.24	0.40	0.22	0.46	-	-	-	-	-	-	-	-
	2500	0.31	0.33	0.29	0.39	0.27	0.45	0.25	0.51	-	-	-	-	-	-	-	-
AB-25	2000	0.31	0.30	0.28	0.36	0.25	0.43	0.22	0.49	-	-	-	-	-	-	-	-
	2250	0.35	0.35	0.32	0.40	0.29	0.48	0.26	0.56	-	-	-	-	-	-	-	-
	2500	0.40	0.38	0.37	0.45	0.34	0.53	0.31	0.62	-	-	-	-	-	-	-	-
AB-32	1750	0.45	0.35	0.41	0.43	0.37	0.51	0.33	0.59	-	-	-	-	-	-	-	-
	2000	0.53	0.39	0.49	0.47	0.45	0.55	0.41	0.63	-	-	-	-	-	-	-	-
	2250	0.61	0.44	0.57	0.52	0.53	0.60	0.49	0.68	-	-	-	-	-	-	-	-
	2500	0.69	0.48	0.65	0.56	0.61	0.64	0.57	0.72	-	-	-	-	-	-	-	-
	2900	0.77	0.53	0.73	0.61	0.69	0.69	0.65	0.77	-	-	-	-	-	-	-	-
AB-40	850	1.06	0.48	0.93	0.74	0.83	0.98	0.75	1.23	0.67	1.48	-	-	-	-	-	-
	950	1.22	0.54	1.09	0.82	0.99	1.09	0.90	1.38	0.83	1.66	-	-	-	-	-	-
	1050	1.37	0.60	1.24	0.91	1.14	1.22	1.06	1.52	0.98	1.83	-	-	-	-	-	-
	1150	1.44	0.66	1.40	0.99	1.30	1.33	1.22	1.67	1.14	2.00	-	-	-	-	-	-
	1250	1.69	0.71	1.56	1.08	1.46	1.45	1.37	1.82	1.30	2.19	1.23	2.55	1.17	2.92	1.11	3.29
	1350	1.84	0.77	1.71	1.16	1.61	1.56	1.53	1.96	1.46	2.36	1.39	2.75	1.33	3.15	1.27	3.54
	1450	2.00	0.82	1.87	1.25	1.77	1.68	1.69	2.10	1.61	2.53	1.54	2.96	1.48	3.38	1.43	3.81
	1550	2.16	0.87	2.03	1.33	1.93	1.79	1.84	2.24	1.77	2.70	1.70	3.16	1.64	3.62	1.58	4.07
	1650	2.31	0.93	2.18	1.43	2.08	1.91	2.00	2.39	1.93	2.88	1.86	3.37	1.80	3.85	1.74	4.34
	1750	2.47	0.99	2.34	1.51	2.24	2.02	2.16	2.54	2.08	3.05	2.02	3.57	1.95	4.08	1.90	4.60
	1850	2.63	1.05	2.50	1.60	2.40	2.14	2.31	2.68	2.24	3.23	2.17	3.77	2.11	4.31	2.05	4.86
	1950	2.78	1.10	2.65	1.68	2.55	2.25	2.47	2.83	2.40	3.40	2.33	3.98	2.27	4.55	2.21	5.13
AB-50	850	1.85	0.70	1.68	1.12	1.56	1.54	1.45	1.96	1.35	2.37	1.26	2.78	1.18	3.21	1.11	3.62
	950	2.11	0.78	1.95	1.25	1.82	1.71	1.71	2.19	1.61	2.65	1.52	3.12	1.44	3.58	1.37	4.05
	1050	2.38	0.86	2.21	1.38	2.08	1.90	1.97	2.42	1.87	2.93	1.79	3.44	1.71	3.96	1.63	4.47
	1150	2.64	0.94	2.47	1.52	2.34	2.08	2.23	2.65	2.13	3.21	2.05	3.77	1.97	4.34	1.89	4.90
	1250	2.90	1.04	2.73	1.64	2.60	2.25	2.49	2.88	2.39	3.48	2.31	4.09	2.23	4.72	2.15	5.32
	1350	3.16	1.12	2.99	1.77	2.86	2.44	2.75	3.11	2.66	3.76	2.57	4.43	2.49	5.08	2.41	5.75
	1450	3.42	1.20	3.25	1.91	3.12	2.62	3.01	3.34	2.92	4.04	2.83	4.75	2.75	5.46	2.68	6.18
	1550	3.68	1.28	3.51	2.04	3.38	2.79	3.27	3.57	3.18	4.32	3.09	5.08	3.01	5.84	2.94	6.60
	1650	3.94	1.36	3.77	2.17	3.65	2.98	3.54	3.80	3.44	4.60	3.35	5.41	3.27	6.22	3.20	7.03
	1750	4.20	1.45	4.04	2.30	3.91	3.16	3.80	4.03	3.70	4.88	3.61	5.74	3.53	6.60	3.46	7.45
	1850	4.47	1.53	4.30	2.44	4.17	3.35	4.06	4.26	3.96	5.15	3.88	6.06	3.80	6.97	3.72	7.88
	1950	4.73	1.61	4.56	2.56	4.43	3.52	4.32	4.47	4.22	5.44	4.14	6.39	4.06	7.35	3.98	8.30
AB-65	850	2.42	0.91	2.20	1.36	2.04	1.91	1.90	2.45	1.78	2.99	1.67	3.53	1.57	4.07	1.48	4.61
	950	2.75	1.01	2.54	1.52	2.38	2.13	2.24	2.74	2.12	3.35	2.01	3.94	1.91	4.55	1.82	5.16
	1050	3.09	1.12	2.88	1.68	2.72	2.36	2.58	3.02	2.46	3.69	2.35	4.36	2.25	5.04	2.16	5.70
	1150	3.43	1.22	3.22	1.84	3.06	2.58	2.92	3.31	2.80	4.05	2.69	4.77	2.59	5.51	2.50	6.24
	1250	3.77	1.33	3.56	2.00	3.40	2.81	3.26	3.60	3.14	4.39	3.03	5.20	2.93	5.99	2.84	6.79
	1350	4.11	1.44	3.90	2.16	3.74	3.02	3.60	3.89	3.48	4.75	3.37	5.61	3.27	6.47	3.18	7.34
	1450	4.45	1.54	4.24	2.32	4.08	3.25	3.94	4.17	3.82	5.09	3.71	6.03	3.61	6.95	3.52	7.88
	1550	4.79	1.64	4.58	2.48	4.42	3.47	4.28	4.46	4.16	5.45	4.05	6.44	3.95	7.43	3.86	8.42
	1650	5.13	1.76	4.92	2.65	4.76	3.70	4.62	4.75	4.50	5.81	4.39	6.85	4.29	7.91	4.20	8.96
	1750	5.47	1.86	5.26	2.81	5.10	3.92	4.96	5.04	4.84	6.15	4.73	7.27	4.63	8.38	4.54	9.50
	1850	5.81	1.97	5.60	2.97	5.44	4.15	5.30	5.32	5.18	6.51	5.07	7.68	4.97	8.87	4.88	10.05
	1950	6.15	2.07	5.94	3.13	5.78	4.37	5.64	5.61	5.52	6.85	5.41	8.11	5.31	9.35	5.22	10.59
AB-80	800	4.15	1.50	3.87	2.40	3.66	3.30	3.48	4.20	3.32	5.11	3.17	6.00	3.04	6.90	2.91	7.80
	900	4.75	1.69	4.47	2.70	4.26	3.71	4.07	4.73	3.91	5.74	3.77	6.75	3.64	7.76	3.51	8.77
	1000	5.35	1.87	5.07	3.00	4.86	4.13	4.67	5.26	4.51	6.38	4.37	7.50	4.24	8.63	4.11	9.75
	1100	5.95	2.06	5.67	3.30	5.46	4.54	5.27	5.77	5.11	7.02	4.97	8.26	4.83	9.49	4.71	10.73
	1200	6.55	2.25	6.27	3.60	6.05	4.96	5.87	6.30	5.71	7.65	5.57	9.00	5.43	10.35	5.31	11.71
	1300	7.15	2.44	6.87	3.90	6.65	5.36	6.47	6.83	6.31	8.29	6.17	9.75	6.03	11.21	5.91	12.68
	1400	7.75	2.62	7.47	4.20	7.25	5.77	7.07	7.35	6.91	8.92	6.77	10.50	6.63	12.08	6.51	13.65
	1500	8.35	2.82	8.07	4.50	7.85	6.19	7.67	7.88	7.51	9.57	7.36	11.26	7.23	12.94	7.11	14.63
	1600	8.95	3.00	8.67	4.81	8.45	6.60	8.27	8.41	8.11	10.20	7.96	12.01	7.83	13.80	7.71	15.61
	1650	9.25	3.09	8.97	4.96	8.75	6.81	8.57	8.67	8.41	10.52	8.26	12.37	8.13	14.24	8.01	15.99
	1750	9.85	3.28	9.57	5.26	9.35	7.22	9.17	9.19	9.01	11.16	8.86	13.13	8.73	15.10	8.61	17.07
	1850	10.45	3.47	10.16	5.55	9.95	7.64	9.77	9.72	9.61	11.80	9.46	13.88	9.33	15.96	9.20	18.04
	1950	11.04	3.66	10.76	5.85	10.55	8.05	10.37	10.25	10.21	12.43	10.06	14.63	9.93	16.82	9.80	19.02

PERFORMANCE PARAMETER TABLE

Qs = Inlet air flow (m^3/min).
La = Power (kW). (S.F. 1.15)

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
AB-100	800	5.82	2.28	5.43	3.53	5.13	4.80	4.88	6.05	4.66	7.31	4.46	8.58	4.28	9.83	4.11	11.10
	900	6.65	2.55	6.27	3.98	5.97	5.39	5.72	6.81	5.50	8.22	5.30	9.65	5.12	11.06	4.95	12.48
	1000	7.49	2.84	7.11	4.42	6.81	5.99	6.56	7.57	6.34	9.14	6.14	10.72	5.95	12.29	5.78	13.87
	1100	8.33	3.13	7.94	4.85	7.65	6.59	7.40	8.33	7.18	10.05	6.98	11.79	6.79	13.52	6.62	15.26
	1200	9.17	3.40	8.78	5.30	8.49	7.19	8.24	9.09	8.02	10.97	7.82	12.86	7.63	14.75	7.46	16.64
	1300	10.01	3.69	9.62	5.74	9.33	7.79	9.07	9.83	8.85	11.88	8.65	13.94	8.47	15.99	8.30	18.03
	1400	10.85	3.98	10.46	6.18	10.16	8.38	9.91	10.59	9.69	12.80	9.49	15.01	9.31	17.22	9.14	19.41
	1500	11.69	4.26	11.30	6.62	11.00	8.98	10.75	11.35	10.53	13.71	10.33	16.08	10.15	18.43	9.98	20.80
	1600	12.53	4.54	12.14	7.06	11.84	9.58	11.59	12.11	11.37	14.63	11.17	17.15	10.99	19.67	10.82	22.20
	1650	12.95	4.68	12.56	7.28	12.26	9.89	12.01	12.49	11.79	15.09	11.59	17.69	11.41	20.29	11.24	22.89
	1750	13.78	4.97	13.40	7.73	13.10	10.49	12.85	13.24	12.63	16.00	12.43	18.76	12.25	21.52	12.08	24.27
	1850	14.62	5.26	14.24	8.17	13.94	11.09	13.69	14.00	13.47	16.92	13.27	19.83	13.08	22.75	12.91	25.66
	1950	15.46	5.53	15.07	8.61	14.78	11.68	14.53	14.75	14.31	17.83	14.11	20.90	13.92	23.97	13.75	27.05
AB-125A	780	8.63	3.00	8.21	4.81	7.89	6.60	7.62	8.41	7.38	10.21	7.17	12.01	6.97	13.81	6.79	15.62
	830	9.24	3.20	8.82	5.11	8.50	7.03	8.24	8.95	8.00	10.87	7.78	12.78	7.59	14.70	7.40	16.62
	880	9.86	3.39	9.44	5.42	9.12	7.45	8.85	9.49	8.61	11.51	8.40	13.55	8.20	15.58	8.02	17.60
	930	10.47	3.58	10.05	5.73	9.73	7.88	9.46	10.03	9.23	12.17	9.01	14.32	8.82	16.47	8.63	18.62
	990	11.21	3.81	10.79	6.10	10.47	8.38	10.20	10.67	9.97	12.96	9.75	15.24	9.55	17.53	9.37	19.81
	1050	11.95	4.04	11.53	6.46	11.21	8.89	10.94	11.32	10.70	13.74	10.49	16.17	10.29	18.60	10.11	21.02
	1110	12.68	4.28	12.27	6.83	11.95	9.40	11.68	11.96	11.44	14.52	11.23	17.09	11.03	19.65	10.85	22.22
	1180	13.54	4.54	13.13	7.27	12.81	9.99	12.54	12.72	12.30	15.44	12.09	18.17	11.89	20.90	11.71	23.62
	1250	14.40	4.81	13.99	7.69	13.67	10.58	13.40	13.47	13.16	16.36	12.95	19.25	12.75	22.14	12.57	25.02
	1320	15.27	5.08	14.85	8.13	14.53	11.18	14.26	14.23	14.02	17.27	13.81	20.32	13.61	23.37	13.43	26.42
	1390	16.13	5.35	15.71	8.56	15.39	11.78	15.12	14.98	14.88	18.19	14.67	21.40	14.47	24.61	14.29	27.82
	1470	17.11	5.66	16.69	9.05	16.37	12.44	16.10	15.85	15.87	19.24	15.65	22.63	15.46	26.02	15.27	29.43
	1560	18.22	6.00	17.80	9.60	17.48	13.21	17.21	16.81	16.97	20.41	16.76	24.02	16.56	27.62	16.38	31.22
	1650	19.32	6.35	18.91	10.17	18.59	13.97	18.32	17.78	18.08	21.60	17.87	25.40	17.67	29.21	17.48	33.03
	1750	20.55	6.74	20.14	10.78	19.82	14.82	19.55	18.86	19.31	22.91	19.10	26.94	18.90	30.98	18.71	35.03
	1850	21.78	7.12	21.37	11.40	21.05	15.66	20.78	19.94	20.54	24.21	20.32	28.49	20.13	32.75	19.94	37.03
AB-125	780	12.68	4.39	12.12	7.03	11.68	9.65	11.31	12.28	10.99	14.92	10.70	17.55	10.43	20.18	10.18	22.82
	830	13.58	4.67	13.01	7.48	12.58	10.27	12.21	13.08	11.89	15.88	11.59	18.68	11.32	21.48	11.07	24.28
	880	14.48	4.95	13.91	7.92	13.48	10.89	13.11	13.86	12.79	16.84	12.49	19.80	12.22	22.77	11.97	25.75
	930	15.38	5.23	14.81	8.37	14.38	11.51	14.01	14.65	13.68	17.79	13.39	20.93	13.12	24.07	12.87	27.21
	990	16.46	5.57	15.89	8.91	15.45	12.25	15.09	15.59	14.76	18.94	14.47	22.28	14.20	25.62	13.95	28.96
	1050	17.54	5.91	16.97	9.45	16.53	13.00	16.16	16.54	15.84	20.08	15.55	23.63	15.28	27.17	15.03	30.72
	1110	18.61	6.24	18.05	9.99	17.61	13.74	17.24	17.48	16.92	21.23	16.63	24.98	16.36	28.73	16.11	32.48
	1180	19.87	6.64	19.30	10.63	18.87	14.61	18.50	18.58	18.18	22.57	17.88	26.55	17.61	30.53	17.36	34.52
	1250	21.13	7.03	20.56	11.25	20.13	15.47	19.76	19.69	19.43	23.91	19.14	28.13	18.87	32.35	18.62	36.57
	1320	22.39	7.43	21.82	11.88	21.38	16.34	21.02	20.79	20.69	25.25	20.40	29.70	20.13	34.16	19.88	38.62
	1390	23.65	7.82	23.08	12.51	22.64	17.20	22.27	21.90	21.95	26.59	21.66	31.28	21.39	35.97	21.14	40.66
	1470	25.08	8.27	24.52	13.24	24.08	18.19	23.71	23.16	23.39	28.12	23.10	33.07	22.83	38.04	22.57	43.00
	1560	26.70	8.77	26.13	14.04	25.70	19.31	25.33	24.58	25.01	29.84	24.71	35.11	24.44	40.37	24.19	45.63
	1650	28.32	9.28	27.75	14.85	27.31	20.42	26.95	25.99	26.62	31.56	26.33	37.13	26.06	42.70	25.81	48.27
	1750	30.12	9.84	29.55	15.76	29.11	21.65	28.74	27.57	28.42	33.48	28.13	39.38	27.86	22.30	27.61	51.20
	1850	31.91	10.41	31.34	16.65	30.91	22.90	30.54	29.14	30.22	35.31	29.92	41.63	29.65	47.87	29.40	54.12
AB-150	780	16.39	5.66	15.68	9.05	15.13	12.44	14.66	15.85	14.26	19.24	13.89	22.63	13.55	26.02	13.24	29.43
	830	17.55	6.03	16.83	9.64	16.29	13.25	15.82	16.86	15.42	20.47	15.05	24.08	14.71	27.69	14.39	31.31
	880	18.71	6.38	17.99	10.21	17.44	14.04	16.98	17.87	16.57	21.70	16.21	25.53	15.87	29.36	15.55	33.20
	930	19.87	6.75	19.15	10.80	18.60	14.85	18.14	18.89	17.73	22.94	17.37	26.99	17.03	31.04	16.71	35.09
	990	21.26	7.18	20.54	11.49	19.99	15.80	19.53	20.11	19.12	24.41	18.76	28.73	18.42	33.04	18.10	37.34
	1050	22.65	7.61	21.93	12.19	21.38	16.76	20.92	21.33	20.51	25.90	20.15	30.46	19.81	35.04	19.49	39.61
	1110	24.04	8.05	23.32	12.88	22.77	17.71	22.31	22.55	21.90	27.38	21.54	32.21	21.20	37.04	20.88	41.87
	1180	25.66	8.56	24.94	13.70	24.40	18.84	23.93	23.97	23.53	29.11	23.16	34.24	22.82	39.38	22.50	44.52
	1250	27.28	9.07	26.57	14.51	26.01	19.95	25.56	25.39	25.15	30.83	24.78	36.27	24.44	41.71	24.04	47.15
	1320	28.90	9.58	28.19	15.32	27.64	21.07	27.18	26.81	26.77	32.56	26.40	38.31	26.06	44.05	25.75	49.80
	1390	30.52	10.09	29.81	16.13	29.26	22.18	28.80	28.23	28.39	34.28	28.02	40.33	27.69	46.38	27.37	52.43
	1470	32.38	10.66	31.66	5.57	31.12	23.46	30.65	29.85	30.25	36.26	29.88	42.65	29.54	49.05	29.22	55.45
	1560	34.46	11.32	33.75	18.10	33.20	24.90	32.74	31.68	32.33	38.48	31.96	45.26	31.63	52.06	31.31	58.85
	1650	36.55	11.97	35.84	19.15	35.29	26.34	34.82	33.51	34.42	40.70	34.05	47.87	33.71	55.06	33.40	62.24
	1750	38.87	12.70	38.15	20.31	37.60	27.93	37.14	35.55	36.73	43.16	36.37	50.78	36.03	58.40	35.71	66.01
	1850	41.18	13.42	40.47	21.47	39.92	29.52	39.46	37.58	39.05	45.63	38.68	53.68	38.35	61.73	38.03	69.78

PERFORMANCE PARAMETER TABLE

Qs = Inlet air flow (m^3/min).
La = Power (kW). (S.F. 1.15)

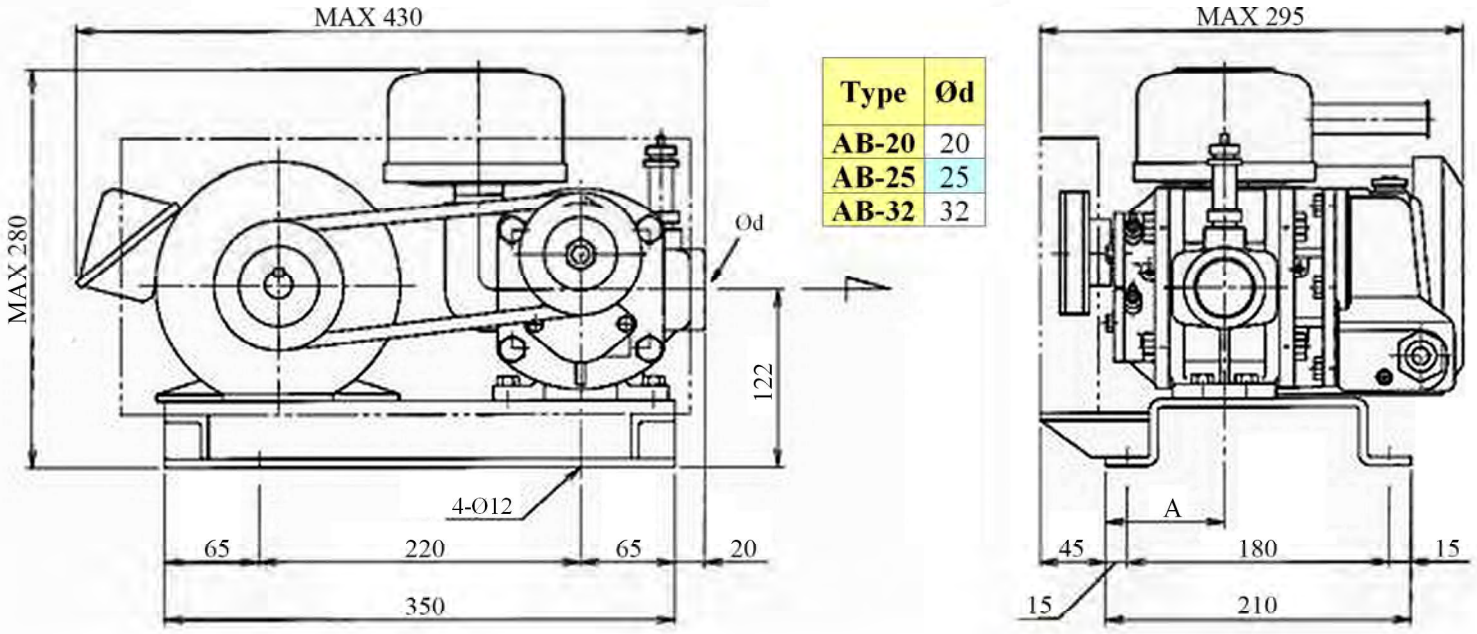
Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
AB-200A	830	28.70	9.66	27.79	15.46	27.10	21.25	26.51	27.04	26.00	32.83	25.53	38.63	25.10	44.42	24.70	50.22
	880	30.56	10.24	29.65	16.39	28.96	22.53	28.37	28.67	27.85	34.81	27.39	40.96	26.96	47.10	26.56	53.25
	930	32.42	10.82	31.51	17.32	30.82	23.81	30.23	30.30	29.71	36.79	29.25	43.29	28.82	49.78	28.42	56.27
	990	34.65	11.52	33.74	18.43	33.05	25.35	32.46	32.26	31.94	39.17	31.48	46.08	31.05	52.99	30.65	59.90
	1050	36.88	12.21	35.97	19.55	35.28	26.88	34.69	34.21	34.17	41.54	33.71	48.88	33.28	56.20	32.88	63.54
	1110	39.11	12.91	38.20	20.67	37.51	28.42	36.92	36.17	36.40	43.92	35.94	51.66	35.51	59.41	35.11	67.16
	1180	41.71	13.73	40.80	21.97	40.11	30.21	39.52	38.44	39.00	46.68	38.54	54.92	38.11	63.16	37.71	71.39
	1250	44.31	14.55	43.41	23.28	42.71	31.99	42.12	40.72	41.61	49.45	41.14	58.18	40.71	66.91	40.31	75.64
	1320	46.91	15.36	46.01	24.58	45.31	33.79	44.73	43.01	44.21	52.22	43.74	61.43	43.31	70.66	42.91	79.87
	1390	49.52	16.17	48.61	25.88	47.91	35.58	47.33	45.30	46.81	54.99	46.34	64.70	45.91	74.41	45.51	84.10
	1470	52.49	17.10	51.58	27.37	50.89	37.63	50.30	47.90	49.78	58.16	49.32	68.41	48.89	78.68	48.49	88.94
AB-200	880	39.65	13.17	38.63	21.07	37.85	28.97	37.20	36.86	36.62	44.76	36.10	52.66	35.62	60.56	35.17	68.46
	930	42.04	13.92	41.02	22.26	40.24	30.61	39.59	38.96	39.01	47.30	38.49	55.65	38.01	64.00	37.56	72.35
	990	44.90	14.81	43.89	23.70	43.11	32.58	42.45	41.47	41.88	50.36	41.35	59.25	40.87	68.13	40.43	77.02
	1050	47.77	15.71	46.76	25.14	45.98	34.56	45.32	43.99	44.74	53.41	44.22	62.84	43.74	72.25	43.29	81.68
	1110	50.64	16.61	49.62	26.57	48.85	36.54	48.19	46.49	47.61	56.47	47.09	66.42	46.61	76.38	46.16	86.35
	1180	53.98	17.65	52.97	28.24	52.19	38.84	51.53	49.43	50.96	60.02	50.43	70.61	49.95	81.20	49.51	91.79
	1250	57.33	18.70	56.31	29.92	55.54	41.14	54.88	52.36	54.30	63.58	53.78	74.81	53.30	86.02	52.85	97.24
	1320	60.67	19.75	59.66	31.60	58.88	43.45	58.22	55.29	57.65	67.14	57.12	78.99	56.64	90.84	56.20	102.68
	1390	64.02	20.79	63.00	33.27	62.23	45.75	61.57	58.22	60.99	70.70	60.47	83.18	59.99	95.66	59.54	108.13
	1470	67.84	21.99	66.83	69.69	66.05	48.38	65.39	61.58	64.82	74.77	64.29	87.96	63.81	101.17	63.37	114.36
AB-250	830	50.06	16.56	48.87	26.48	47.96	36.42	47.19	46.36	46.52	56.29	45.91	66.23	45.34	76.15	44.82	86.09
	880	53.25	17.55	52.06	28.08	51.15	38.62	50.38	49.15	49.70	59.69	49.09	70.22	48.53	80.74	48.01	91.28
	930	56.43	18.55	55.24	29.68	54.33	40.81	53.57	51.95	52.89	63.08	52.28	74.20	51.72	85.33	51.19	96.46
	990	60.25	19.75	59.07	66.10	58.16	43.45	57.39	55.29	56.71	67.14	56.10	78.99	55.54	90.84	55.01	102.68
	1050	64.08	20.94	62.89	33.51	61.98	46.08	61.21	58.65	60.54	71.21	59.92	83.78	59.36	96.35	58.84	108.92
	1110	67.90	22.14	66.71	35.43	65.80	48.71	65.03	62.00	64.36	75.28	63.75	88.56	63.18	101.86	62.66	115.14
	1180	72.36	23.54	71.17	25.01	70.26	51.78	69.50	65.91	68.82	80.03	68.21	94.15	67.64	108.27	67.12	122.39
	1250	76.82	24.93	75.63	39.89	74.72	54.86	73.96	69.82	73.28	84.78	72.67	99.74	72.10	114.70	71.58	129.66
	1320	81.28	26.34	80.09	42.12	79.18	57.93	78.42	73.73	77.74	89.53	77.13	105.32	76.57	121.12	76.04	136.92
	1390	85.74	27.73	84.55	44.37	83.64	61.00	82.88	77.64	82.20	94.27	81.59	110.91	81.03	127.55	80.50	144.18
	1470	90.84	29.33	89.65	46.92	88.74	64.52	87.97	82.10	87.30	99.69	86.69	117.29	86.12	134.88	85.60	152.48
AB-300A	830	66.56	22.08	64.90	35.32	63.63	48.56	62.56	61.81	61.61	75.05	60.76	88.30	59.98	101.55	59.25	114.79
	880	70.80	23.40	69.14	37.44	67.88	51.49	66.81	65.54	65.86	79.58	65.01	93.62	64.22	107.66	63.49	121.70
	930	75.05	24.74	73.40	39.57	72.13	54.42	71.05	69.25	70.11	84.10	69.26	98.93	68.47	113.78	67.74	128.62
	990	80.15	26.34	78.49	42.12	77.22	57.93	76.15	73.73	75.21	89.53	74.35	105.32	73.57	121.12	72.84	136.92
	1050	85.25	27.92	83.59	44.68	82.32	61.43	81.25	78.19	80.31	94.94	79.45	111.70	78.67	128.46	77.94	145.21
	1110	90.34	29.52	88.69	47.23	87.42	64.95	86.35	82.66	85.40	100.37	84.55	118.08	83.76	135.80	83.03	153.51
	1180	96.29	31.38	94.64	50.21	93.36	69.05	92.29	87.87	91.35	106.71	90.50	125.53	89.71	144.36	88.98	163.20
	1250	102.24	33.25	100.58	53.19	99.31	73.14	98.24	93.09	97.30	113.02	96.44	132.99	95.66	152.93	94.93	172.88
	1320	108.19	35.11	106.53	56.17	105.26	77.23	104.19	98.30	103.24	119.36	102.39	140.43	101.61	161.49	100.88	182.56
	1390	114.13	36.97	112.48	59.14	111.21	81.33	110.13	103.51	109.19	125.70	108.34	147.88	107.55	170.06	106.82	192.23
	1470	120.93	39.10	119.27	62.56	118.00	86.01	116.93	109.47	115.99	132.93	115.13	156.39	114.35	179.85	113.62	203.30
AB-300	800	101.32	33.48	98.97	53.57	97.16	73.66	95.64	93.75	94.30	113.84	93.09	133.93	91.98	154.01	90.94	174.06
	900	114.68	37.66	112.34	60.26	110.53	82.87	109.01	105.47	107.67	128.06	106.46	150.66	105.35	173.26	104.31	195.87
	1000	128.05	41.85	125.70	66.96	123.90	92.07	122.38	117.19	121.04	142.29	119.83	167.41	118.72	192.51	117.68	217.63
	1100	141.42	46.03	139.07	73.66	137.27	101.28	135.75	128.90	134.41	156.53	133.20	184.15	132.09	211.76	131.05	239.38
	1200	154.79	50.22	152.44	80.35	150.64	110.49	149.12	140.62	147.78	170.75	146.57	200.88	145.45	231.02	144.42	261.15
	1300	168.16	54.41	165.81	87.06	164.01	119.69	162.49	152.34	161.15	184.98	159.94	217.63	158.82	250.27	157.79	282.91
	1400	181.53	58.59	179.18	93.75	177.38	128.90	175.86	164.06	174.52	199.21	173.31	234.37	172.19	269.53	171.16	304.68
AB-350	600	118.64	39.46	115.56	63.14	113.20	86.81	111.20	110.49	109.44	134.16	107.86	157.84	106.40	181.52	105.04	205.19
	700	139.65	46.03	136.57	73.66	134.20	101.28	132.21	128.90	130.45	156.53	128.86	184.15	127.40	211.76	126.04	239.38
	800	160.66	52.61	157.58	84.18	155.21	115.75	153.22	147.32	151.46	178.88	149.87	210.45	148.41	242.02	147.05	273.59
	900	181.67	59.19	178.58	94.70	176.22	130.21	174.23	165.73	172.47	201.24	170.88	236.76	169.42	272.27	168.06	307.79
	1000	202.68	65.77	199.59	105.23	197.23	144.68	195.23	184.15	193.48	223.61	191.89	263.06	190.43	302.52	189.07	341.99
	1100	223.68	72.35	220.60	115.75	218.23	159.15	216.24	202.56	214.48	245.96	212.90	289.37	211.43	332.78	210.08	376.18
	1200	244.69	78.92	241.61	126.27	239.24	173.63	237.25	220.97	235.49	268.33	233.90	315.68	232.44	363.03	231.08	410.38
	1300	265.70	85.49	262.62	136.79	260.25	188.09	258.26	239.38	256.50	290.69	254.91	341.99	253.45	393.28	252.09	444.58
	1400	286.71	92.07	283.62	147.32	281.26	202.56	279.26	257.81	277.51	313.04	275.92	368.29	274.46	423.53	273.10	478.78

PERFORMANCE PARAMETER TABLE

Qs = Inlet air flow (m³/min).
La = Power (kW). (S.F. 1.15)

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
AB-400	600	137.91	45.74	134.50	73.17	131.88	100.63	129.68	128.06	127.73	155.50	125.98	182.95	124.36	210.39	122.86	237.83
	700	162.26	53.36	158.85	85.38	156.23	117.39	154.03	149.41	152.08	181.42	150.33	213.44	148.71	245.46	147.21	277.47
	800	186.61	60.98	183.20	97.58	180.58	134.16	178.38	170.75	176.43	207.35	170.68	243.93	173.06	280.52	171.56	317.11
	900	210.96	68.61	207.55	109.77	204.93	150.94	202.73	192.10	200.78	233.25	199.03	274.42	197.41	315.58	195.91	356.75
	1000	235.31	76.23	231.90	121.97	229.28	167.70	227.08	213.44	225.13	259.18	223.38	304.91	221.76	350.66	220.26	396.39
	1100	259.66	83.85	256.25	134.16	253.63	184.47	251.43	234.78	249.48	285.10	247.73	335.41	246.11	385.72	244.61	436.03
	1200	284.01	91.47	280.60	146.36	277.98	201.24	275.78	256.13	273.83	311.02	272.08	365.90	270.46	420.79	268.96	475.66

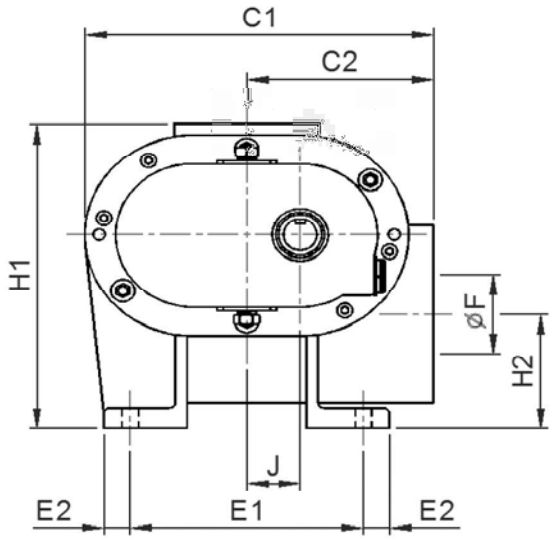
PERFORMANCE PARAMETER TABLE

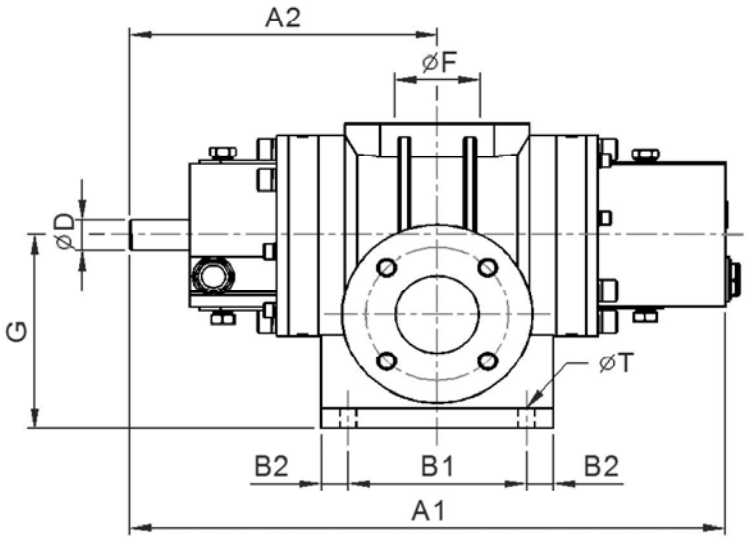


Type	Ød
AB-20	20
AB-25	25
AB-32	32

INSTALLATION DIMENSIONS

Main-Body

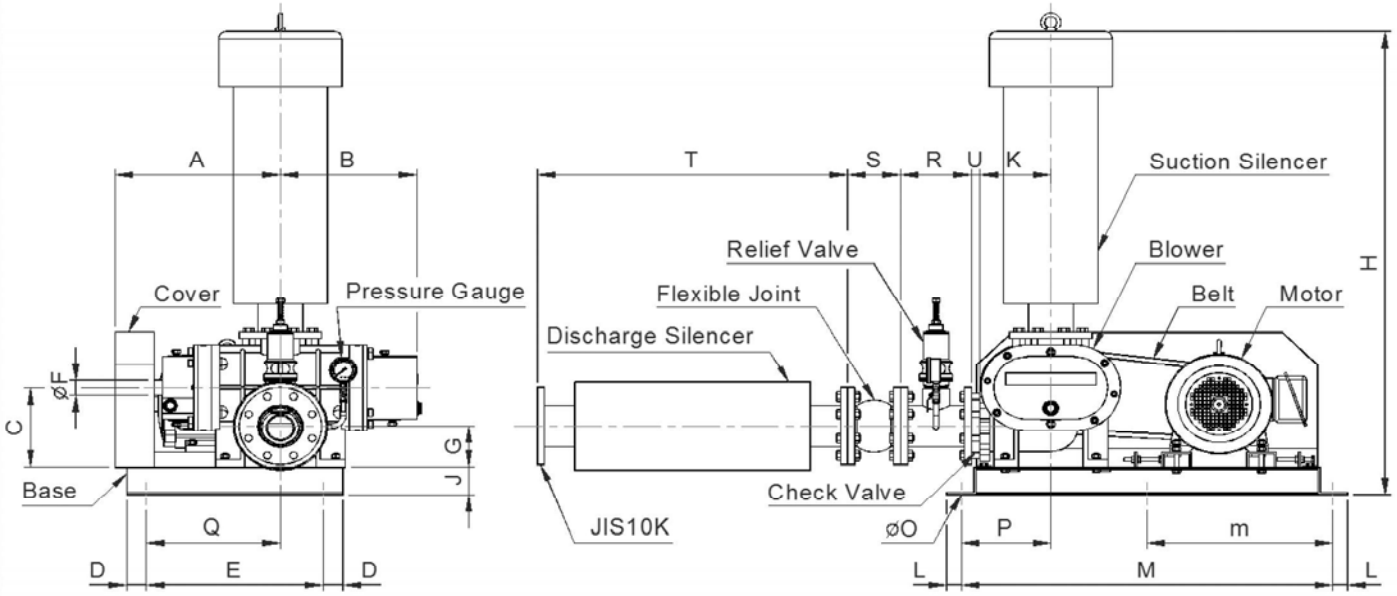




Type	A1	A2	B1	B2	C1	C2	ØD	ØT	E1	E2	ØF	G	H1	H2	J	Weight (kg.)
AB-40	421	219	80	15	276	140	28	14	196	22	JIS 5K 2" / 10K 2"	180	285	104	45	55
AB-50	501	259	150	22.5	276	140	28	14	196	22	JIS 10K 2"	191	292	104	45	70
AB-65	561	289	196	27	288	152	28	14	196	27	JIS 10K 2.5"	194	295	104	45	72
AB-80	640	343	196	22	358	180	38	14	196	22	JIS 10K 3"	212	341	107	60	136
AB-100	740	393	282	24	358	180	38	14	232	29	JIS 10K 4"	217	352	112	60	148
AB-125A	770	400	210	20	483	250	48	19	346	27	JIS 10K 5"	262	430	135	80	248
AB-125	890	460	310	30	483	250	48	19	355	22.5	JIS 10K 5"	262	430	163	80	274
AB-150	1000	515	428	26	483	250	48	19	355	22.5	JIS 10K 6"	289	453	163	80	308
AB-200A	993	495	239	45.5	700	360	65	23	555	42.5	JIS 10K 8"	402	630	198	120	640
AB-200	1093	545	400	38	690	350	65	23	550	35	JIS 10K 8"	402	630	198	120	732
AB-250	1243	620	520	25	700	360	65	23	550	35	JIS 10K 10"	435	660	218	120	929
AB-300A	1479	756	680	45	700	360	75	23	540	40	JIS 10K 12"	435	675	255	120	1071
AB-300	1306	699	420	55	1010	510	95	33	780	35	JIS 10K 12"	550	880	300	180	1700
AB-350	1626	859	740	55	1010	510	95	33	780	35	JIS 10K 14"	550	880	300	180	2250
AB-400	1766	929	880	55	1010	510	95	33	780	35	JIS 10K 16"	550	880	300	180	2500

INSTALLATION DIMENSIONS

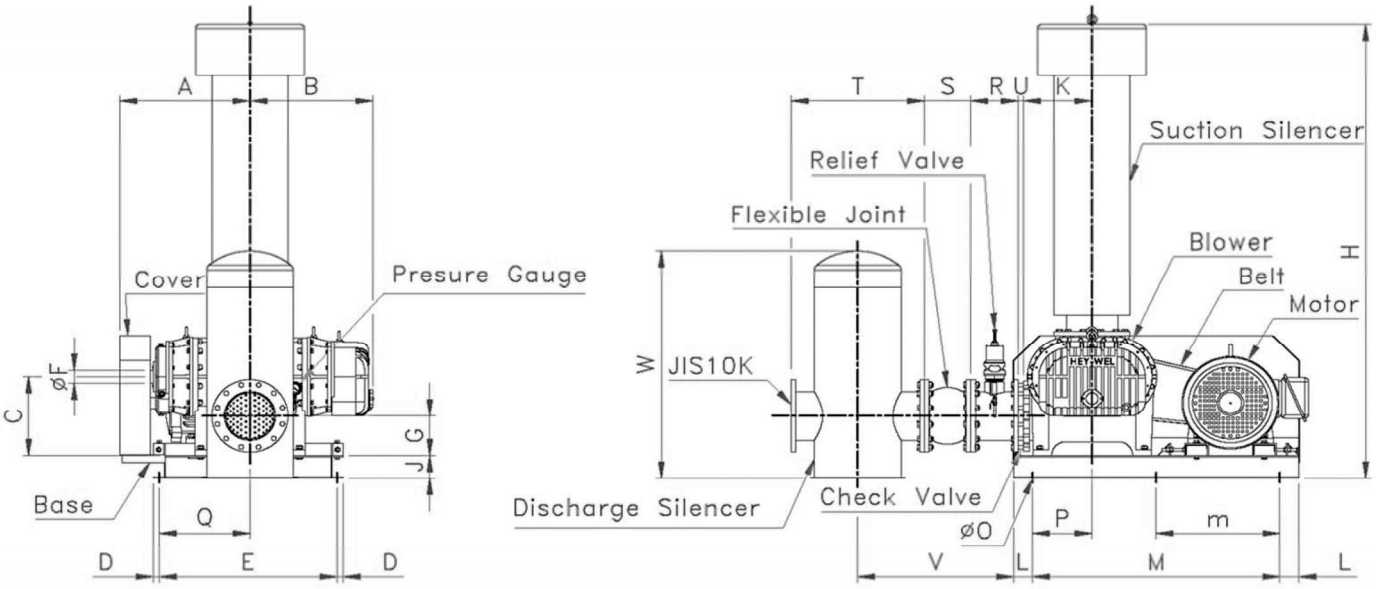
Horizontal Outlet Silencer



Type	A	B	C	D	E	ØF	G	H	J	K	L	M	m	ØO	P	Q	R	U	S	T	Weight (kg.)
AB-40	235	202	180	20	350	28	104	731	46	140	50	500	-	14	98	255	150	20	105	589	85
AB-50	274	242	191	50	350	28	104	933	75	140	37.5	795	-	12.7	208	209	150	20	105	589	122
AB-65	303	272	194	50	350	28	104	936	75	152	37.5	795	-	12.7	208	238	150	24	115	589	132
AB-80	371	297	212	50	450	38	107	1251	75	180	37.5	945	-	12.7	228	291	180	24	136	789	233
AB-100	421	347	217	50	450	38	112	1262	75	180	37.5	945	-	12.7	228	341	180	22	136	789	247
AB-125A	435	371	262	25	550	48	135	1851	100	250	100	900	-	19	133	240	250	24	174	1260	408
AB-125	495	431	262	25	550	48	163	1851	100	250	100	900	-	19	138	300	250	24	174	1260	434
AB-150	536	486	289	25	550	48	163	1874	100	250	100	900	-	19	138	341	250	26	180	1260	485
AB-200A	560	498	402	32.5	935	65	198	2263	125	360	100	1300	650	20	313	352	250	27	205	1640	990
AB-200	610	548	402	32.5	935	65	198	2263	125	350	100	1300	650	20	313	406	250	27	205	1640	1080
AB-250	685	623	435	32.5	935	65	218	2500	125	360	100	1300	650	20	313	478	250	28	240	1760	1350
AB-300A	800	723	435	37.5	925	75	255	2682	150	360	235	1530	765	24	273	523	300	32	260	1750	1660
AB-300	780	607	550	45	1010	95	300	3097	250	510	235	2000	1000	33	325	400	300	32	260	1850	2500
AB-350	940	767	550	45	1110	95	300	3367	250	510	235	2000	1000	33	325	560	350	35	265	2500	3380
AB-400	1020	837	550	45	1110	95	300	3363	250	510	235	2000	1000	33	325	670	350	40	265	2700	3850

INSTALLATION DIMENSIONS

Vertical Outlet Silencer



Type	A	B	C	D	E	ØF	G	H	J	K	L	M	m	ØO	P	Q	R	U	S	T	V	W	Weight (kg.)
AB-40	235	202	108	20	350	28	104	731	46	140	50	500	-	14	98	255	150	20	105	300	417	420	102
AB-50	274	242	191	50	350	28	104	933	75	140	37.5	795	-	12.7	208	209	150	20	105	300	389	420	130.5
AB-65	303	272	194	50	350	28	104	936	75	152	37.5	75	-	12.7	208	238	150	24	115	350	440	485	142
AB-80	371	297	212	50	450	38	107	1251	75	180	37.5	945	-	12.7	228	291	180	24	136	400	518	595	239
AB-100	421	347	217	50	450	38	112	1262	75	180	37.5	945	-	12.7	228	341	180	22	136	450	547	665	262.5
AB-125A	435	371	262	25	550	48	135	1851	100	250	100	900	-	19	133	240	250	24	174	500	715	805	423
AB-125	495	431	262	25	550	48	163	1851	100	250	100	900	-	19	138	300	250	24	174	500	711	805	449
AB-150	536	486	289	25	550	48	163	1874	100	250	100	900	-	19	138	341	250	26	180	598	773	920	519
AB-200A	560	498	402	33	935	65	198	2263	125	360	100	1300	650	20	313	352	250	27	205	648	761	1080	984
AB-200	610	548	402	33	935	65	198	2263	125	360	100	1300	650	20	313	403	250	27	205	648	743	1080	1076
AB-250	685	646	435	33	935	65	218	2500	125	360	100	1300	650	20	313	478	250	28	245	700	820	1255	1356