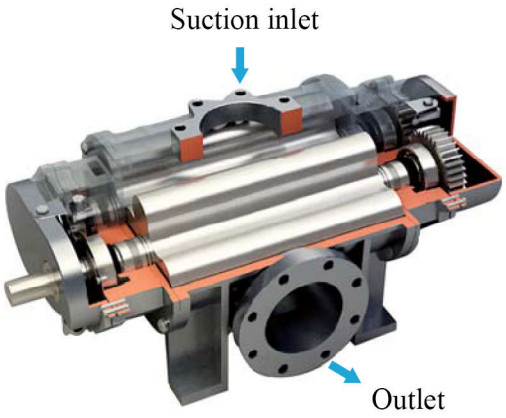
AIRFLOW

LOW PRESSURE ROOTS BLOWER

Theory

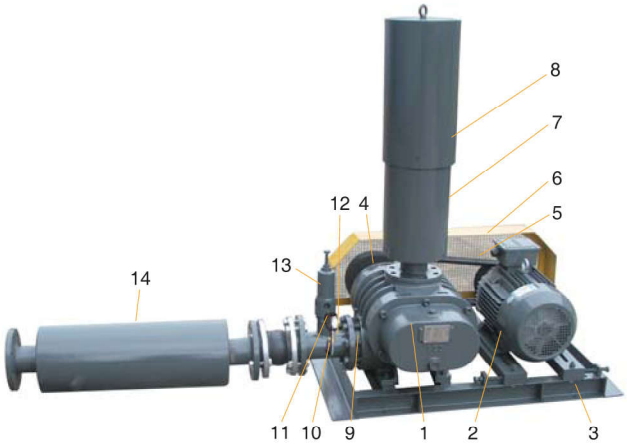


ABL is a displacement blower, the pressure can be adjusted according to the requirement of the user in allowing range. There are two impellers in the blower body which rotate in the opposite direction, in order to let the impeller rotate, there are some tin gaps between the impeller to body, impeller to impeller. When the impeller rotates through the suction inlet, it can gather an amount of air between the body and impeller, then the impeller go on rotating, and the air will be pressured,

Features

- Wide range of capacity and pressure.
  Calibre: 50mm - 300mm (2" - 12")
  Capacity: 0.82 - 127 m^3/min (29-4482CFM)
  Pressure: The pressure up to 6000 mmAq (0.6 kgf/cm^2)
- 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.
- High efficiency due to spedial impeller design, great air-delivery low power.
- Simpler and solider structure, less trouble.
- Highest quality pilot & accurate great applied, long life and low noise assured.
- Standardized product with strict quality control.
- Our impeller has used the most advanced technic, one time for all working process of the six-shaft method, to enhance the precision of leave wheel.

Externality Construction



NO.	NAME
1	Blower Body
2	Motor
3	Foundation
4	Pulley
5	Driving Belt
6	Belt Cover
7	Inlet Silencer
8	Rain Cover
9	Check Valve
10	Gauge Pipe
11	Outlet Pressure Gauge
12	T-Joint
13	Safety Valve
14	Outlet Silencer

Type Description

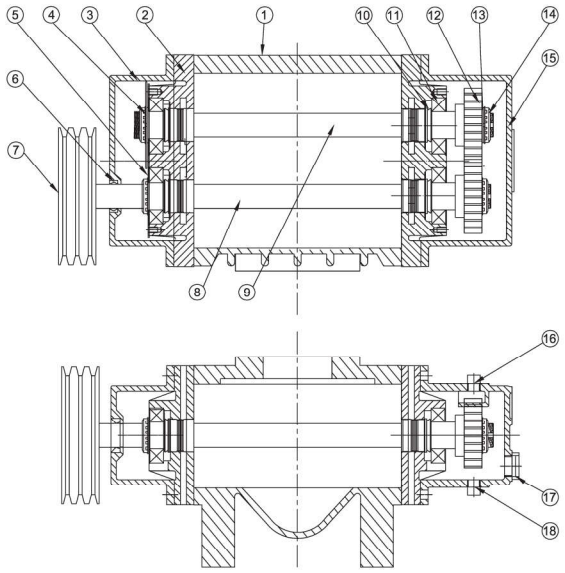
ABL - 50

DIAMETER (mm)

LOW PRESSURE THREE-LOBE ROOTS BLOWER

Construction

NO.	NAME	MATERIAL
1	Casing	HT250
2	Bearing Housing	HT250
3	Oil Box	HT250
4	Oil Splash	Q235
5	Bearing Washer	Q235
6	Framework Oil Seal	Viton
7	Pulley	HT250
8	Drive Rotor	Assembly
9	Driven Rotor	Assembly
10	V-Ring	Viton
11	Bearing	SUJ2
12	Gear Box	SCM435
13	Lock Washer	Q235
14	Lock Nut	45
15	Gear Box	HT250
16	Lubrication Plug	45
17	Oil Gauge	Assembly
18	Purge Plug	45



Conversion Table

PRESSURE	atm	kPa	bar	lbt/in^2 (psi)	kgf/cm^2	in Hg	ftAq	mmHg (Torr)	mmAq
1 atm	1	101.325	1.01325	14.696	1.0333	29.921	33.914	760	10333
1 kPa	0.0099	1	0.01	0.145	0.0101	0.295	0.335	7.5	102
1 bar	0.9869	100	1	14.504	1.0198	29.53	33.47	750	10198
1 lbt/in^2 (psi)	0.068	6.894	0.0689	1	0.0703	2.036	2.308	51.71	703
1 kgf/cm^2	0.968	98.062	0.981	14.228	1	28.96	32.82	735.53	10000
1 in Hg	0.0334	3.3863	0.0339	0.491	0.0345	1	1.133	25.4	345.3
1 ftAq	0.0295	2.99	0.0299	0.434	0.0305	0.882	1	22.42	304.8
1 mmHg (Torr)	0.013	0.1338	0.00138	0.019	0.0014	0.04	0.045	1	13.6
1 mmAq	0.000097	0.0098	0.000098	0.0014	0.0001	0.003	0.0033	0.074	1

CAPACITY	m^3/min	l/min	cm^3/s	in^3/s	ft^3/min (cfm)
1 m^3/min	1	1000	16667	1016	35.288
1 l/min	0.001	1	16.67	1.02	0.0353
1 cm^3/s	0.00006	0.06	1	0.061	0.02
1 in^3/s	0.00098	0.983	16.39	1	0.035
1 ft^3/min (cfm)	0.028	28.32	471.95	28.8	1

Pressure Conversion Foumula

1 kPa = 1000 Pa = 1000 N/m^2

1 mbar = 10.198 mmAq

1 mmHg (Torr) = 133.8 Pa

Working Directions of Performance Table

- The performance parameter indicate the type, caliber, revolutions, discharge pressure, actual inlet air capacity and shaft power of the blower.
- The performance parameter indicate the air quantity in standard suction condition (temperature 20°C, absolute pressure 1.0332 kgf/cm^2 and relative humidity 65%.
- The reference air capacity (temperature 0°C and absolute pressure 1.033 kgf/cm^2) is generally indicated in Nm^3/min.
- The inlet air capacity can be converted as following.
- The motor power is 1.1-1.3 multiple of shaft power.
- The error of the parameter is about 5%.

$$Q_2 = Q_1 \times \frac{P_1}{P_2} \times \frac{273+T_2}{273+T_1}$$

Q_1: Air capacity (m^3/min) based on absolute pressure P_1 (mmAq) and temperature T_1 (°C)

Q_2: Air capacity (m^3/min) based on absolute pressure P_2 (mmAq) and temperature T_2 (°C)

Performance Parameters

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

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABL-40	1500	0.51	0.30	0.47	0.39	0.43	0.48	0.39	0.58	0.35	0.67	0.31	0.76
	1750	0.59	0.36	0.55	0.46	0.50	0.56	0.46	0.67	0.42	0.77	0.38	0.87
	2000	0.67	0.40	0.62	0.53	0.57	0.64	0.52	0.76	0.47	0.89	0.42	1.00
	2300	0.77	0.46	0.71	0.60	0.65	0.74	0.59	0.87	0.53	1.01	0.47	1.15
	2600	0.89	0.74	0.83	0.87	0.77	1.01	0.71	1.15	0.65	1.29	0.59	1.43
	3300	1.03	1.06	0.97	1.20	0.91	1.33	0.85	1.47	0.79	1.61	0.73	1.75
ABL-50	850	1.03	0.48	0.90	0.74	0.80	0.98	0.72	1.23	0.64	1.48	-	-
	950	1.19	0.54	1.06	0.82	0.96	1.09	0.87	1.38	0.80	1.66	-	-
	1050	1.34	0.60	1.21	0.91	1.11	1.22	1.03	1.52	0.95	1.83	-	-
	1150	1.50	0.66	1.37	0.99	1.27	1.33	1.19	1.67	1.11	2.00	-	-
	1250	1.66	0.71	1.53	1.08	1.43	1.45	1.34	1.82	1.27	2.19	1.20	2.55
	1350	1.81	0.77	1.68	1.16	1.58	1.56	1.50	1.96	1.43	2.36	1.36	2.75
	1450	1.97	0.82	1.84	1.25	1.74	1.68	1.66	2.10	1.58	2.53	1.51	2.96
	1550	2.13	0.87	2.00	1.33	1.90	1.79	1.81	2.24	1.74	2.70	1.67	3.16
	1650	2.28	0.93	2.15	1.43	2.05	1.91	1.97	2.39	1.90	2.88	1.83	3.37
	1750	2.44	0.99	2.31	1.51	2.21	2.02	2.13	2.54	2.05	3.05	1.99	3.57
	1850	2.60	1.05	2.47	1.60	2.37	2.14	2.28	2.68	2.21	3.23	2.14	3.77
	1950	2.75	1.10	2.62	1.68	2.52	2.25	2.44	2.83	2.37	3.40	2.30	3.98
ABL-65	850	1.82	0.70	1.65	1.12	1.53	1.54	1.42	1.96	1.32	2.37	1.23	2.78
	950	2.08	0.78	1.92	1.25	1.79	1.71	1.68	2.19	1.58	2.65	1.49	3.12
	1050	2.35	0.86	2.18	1.38	2.05	1.90	1.94	2.42	1.84	2.93	1.76	3.44
	1150	2.61	0.94	2.44	1.52	2.31	2.08	2.20	2.65	2.10	3.21	2.02	3.77
	1250	2.87	1.04	2.70	1.64	2.57	2.25	2.46	2.88	2.36	3.48	2.28	4.09
	1350	3.13	1.12	2.96	1.77	2.83	2.44	2.72	3.11	2.63	3.76	2.54	4.43
	1450	3.39	1.20	3.22	1.91	3.09	2.62	2.98	3.34	2.89	4.04	2.80	4.75
	1550	3.65	1.28	3.48	2.04	3.35	2.79	3.24	3.57	3.15	4.32	3.06	5.08
	1650	3.91	1.36	3.74	2.17	3.62	2.98	3.51	3.80	3.41	4.60	3.32	5.41
	1750	4.17	1.45	4.01	2.30	3.88	3.16	3.77	4.03	3.67	4.88	3.58	5.74
	1850	4.44	1.53	4.27	2.44	4.14	3.35	4.03	4.26	3.93	5.15	3.85	6.06
	1950	4.70	1.61	4.53	2.56	4.40	3.52	4.29	4.47	4.19	5.44	4.11	6.39

Performance Parameters

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

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABL-80	850	2.39	0.91	2.17	1.36	2.01	1.91	1.87	2.45	1.75	2.99	1.64	3.53
	950	2.72	1.01	2.51	1.52	2.35	2.13	2.21	2.74	2.09	3.35	1.98	3.94
	1050	3.06	1.12	2.85	1.68	2.69	2.36	2.55	3.02	2.43	3.69	2.32	4.36
	1150	3.40	1.22	3.19	1.84	3.03	2.58	2.89	3.31	2.77	4.05	2.66	4.77
	1250	3.74	1.33	3.53	2.00	3.37	2.81	3.23	3.60	3.11	4.39	3.00	5.20
	1350	4.08	1.44	3.87	2.16	3.71	3.02	3.57	3.89	3.45	4.75	3.34	5.61
	1450	4.42	1.54	4.21	2.32	4.05	3.25	3.91	4.17	3.79	5.09	3.68	6.03
	1550	4.76	1.64	4.55	2.48	4.39	3.47	4.25	4.46	4.13	5.45	4.02	6.44
	1650	5.10	1.76	4.89	2.65	4.73	3.70	4.59	4.75	4.47	5.81	4.36	6.85
	1750	5.44	1.86	5.23	2.81	5.07	3.92	4.93	5.04	4.81	6.15	4.70	7.27
	1850	5.78	1.97	5.57	2.97	5.41	4.15	5.27	5.32	5.15	6.51	5.04	7.68
	1950	6.12	2.07	5.91	3.13	5.75	4.37	5.61	5.61	5.49	6.85	5.38	8.11
ABL-100	800	4.12	1.50	3.84	2.40	3.63	3.30	3.45	4.20	3.29	5.11	3.14	6.00
	900	4.72	1.69	4.44	2.70	4.23	3.71	4.04	4.73	3.88	5.74	3.74	6.75
	1000	5.32	1.87	5.04	3.00	4.83	4.13	4.64	5.26	4.48	6.38	4.34	7.50
	1100	5.92	2.06	5.64	3.30	5.43	4.54	5.24	5.77	5.08	7.02	4.94	8.26
	1200	6.52	2.25	6.24	3.60	6.02	4.96	5.84	6.30	5.68	7.65	5.54	9.00
	1300	7.12	2.44	6.84	3.90	6.62	5.36	6.44	6.83	6.28	8.29	6.14	9.75
	1400	7.72	2.62	7.44	4.20	7.22	5.77	7.04	7.35	6.88	8.92	6.74	10.50
	1500	8.32	2.82	8.04	4.50	7.82	6.19	7.64	7.88	7.48	9.57	7.33	11.26
	1600	8.92	3.00	8.64	4.81	8.42	6.60	8.24	8.41	8.08	10.20	7.93	12.01
	1650	9.22	3.09	8.94	4.96	8.72	6.81	8.54	8.67	8.38	10.52	8.23	12.37
	1750	9.82	3.28	9.54	5.26	9.32	7.22	9.14	9.19	8.98	11.16	8.83	13.13
	1850	10.42	3.47	10.13	5.55	9.92	7.64	9.74	9.72	9.58	11.80	9.43	13.88
	1950	11.01	3.66	10.73	5.85	10.52	8.05	10.34	10.25	10.18	12.43	10.03	14.63
ABL-125	800	5.79	2.28	5.40	3.53	5.10	4.80	4.85	6.05	4.63	7.31	4.43	8.58
	900	6.62	2.55	6.24	3.98	5.94	5.39	5.69	6.81	5.47	8.22	5.27	9.65
	1000	7.46	2.84	7.08	4.42	6.78	5.99	6.53	7.57	6.31	9.14	6.11	10.72
	1100	8.30	3.13	7.91	4.85	7.62	6.59	7.37	8.33	7.15	10.05	6.95	11.79
	1200	9.14	3.40	8.75	5.30	8.46	7.19	8.21	9.09	7.99	10.97	7.79	12.86
	1300	9.98	3.69	9.59	5.74	9.30	7.79	9.04	9.83	8.82	11.88	8.62	13.94
	1400	10.82	3.98	10.43	6.18	10.13	8.38	9.88	10.59	9.66	12.80	9.46	15.01
	1500	11.66	4.26	11.27	6.62	10.97	8.98	10.72	11.35	10.50	13.71	10.30	16.08
	1600	12.50	4.54	12.11	7.06	11.81	9.58	11.56	12.11	11.34	14.63	11.14	17.15
	1650	12.92	4.68	12.53	7.28	12.23	9.89	11.98	12.49	11.76	15.09	11.56	17.69
	1750	13.75	4.97	13.37	7.73	13.07	10.49	12.82	13.24	12.60	16.00	12.40	18.76
	1850	14.59	5.26	14.21	8.17	13.91	11.09	13.66	14.00	13.44	16.92	13.24	19.83
	1950	15.43	5.53	15.04	8.61	14.75	11.68	14.50	14.75	14.28	17.83	14.08	20.90

Performance Parameters

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

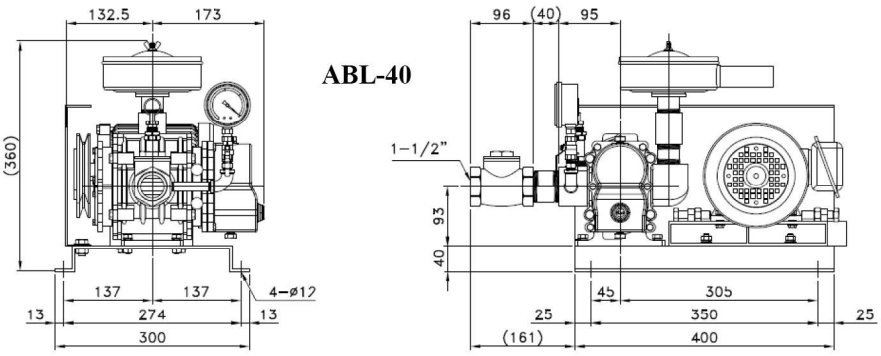
Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABL-150	780	12.64	3.82	12.08	6.11	11.64	8.39	11.27	10.68	10.95	12.97	10.66	15.26
	830	13.54	4.06	12.97	6.50	12.54	8.93	12.17	11.37	11.85	13.81	11.55	16.24
	880	14.44	4.30	13.87	6.89	13.44	9.47	13.07	12.05	12.75	14.64	12.45	27.22
	930	15.34	4.55	14.77	7.28	14.34	10.01	13.97	12.74	13.64	15.47	13.35	18.20
	990	16.42	4.84	15.85	7.75	15.41	10.65	15.05	13.56	14.72	16.47	14.43	19.37
	1050	17.50	5.14	16.93	8.22	16.49	11.30	16.12	14.38	15.80	17.46	15.51	20.55
	1110	18.57	5.43	18.01	8.69	17.57	11.95	17.20	15.20	16.88	18.46	16.59	21.72
	1180	19.83	5.77	19.26	9.24	18.83	12.70	18.46	16.16	18.14	19.63	17.84	23.09
	1250	21.09	6.11	20.52	9.78	20.09	13.45	19.72	17.12	19.39	20.79	19.10	24.46
	1320	22.35	6.46	21.78	10.33	21.34	14.21	20.98	18.08	20.65	21.96	20.36	25.83
	1390	23.61	6.80	23.04	10.88	22.60	14.96	22.23	19.04	21.91	23.12	21.62	27.20
	1470	25.04	7.19	24.48	11.51	24.04	15.82	23.67	20.14	23.35	24.45	23.06	28.76
	1560	26.66	7.63	26.09	12.21	25.66	16.79	25.29	21.37	24.97	25.95	24.67	30.53
	1650	28.28	8.07	27.71	12.91	27.27	17.76	26.91	22.60	26.58	27.44	26.29	32.29
	1750	30.08	8.56	29.51	13.70	29.07	18.83	28.70	23.97	28.38	29.11	28.09	34.24
	1850	31.87	9.05	31.30	14.48	30.87	19.91	30.50	25.34	30.18	30.77	29.88	36.20
ABL-200	780	23.65	7.06	22.70	9.52	21.97	13.76	21.36	17.99	20.81	22.23	20.32	26.47
	830	25.31	7.52	24.36	10.13	23.63	14.64	23.02	19.15	22.48	23.66	21.99	28.17
	880	26.98	7.97	26.03	10.74	25.30	15.52	24.68	20.30	24.14	25.08	23.65	29.86
	930	28.64	8.42	27.69	11.35	26.96	16.40	26.34	21.45	25.80	26.51	25.31	31.56
	990	30.63	8.96	29.68	12.08	28.95	17.46	28.34	2.84	27.80	28.22	27.31	33.60
	1050	32.63	9.51	31.68	12.81	30.95	18.52	30.34	24.22	29.79	29.93	29.30	35.63
	1110	34.63	10.05	33.68	13.55	32.95	19.58	32.33	25.61	31.79	31.64	31.30	37.67
	1180	36.95	10.68	36.00	14.40	35.27	20.81	34.66	27.22	34.12	33.63	33.63	40.04
	1250	39.28	11.32	38.33	15.26	37.60	22.05	36.99	28.84	36.45	35.63	35.96	42.42
	1320	41.61	11.95	40.66	16.11	39.93	23.28	39.32	30.45	38.77	37.62	38.28	44.79
	1390	43.94	12.59	42.99	16.96	42.26	24.52	41.64	32.07	41.10	39.62	40.61	47.17
	1470	46.60	13.31	45.65	17.94	44.92	25.93	44.31	33.91	43.76	41.90	43.27	49.88
	1560	49.59	14.12	48.64	19.04	47.91	27.51	47.30	35.99	46.76	44.46	46.27	52.94
	1650	52.59	14.94	51.64	20.14	50.91	29.10	50.29	38.06	49.75	47.03	49.26	55.99
	1750	55.91	15.85	54.96	21.36	54.23	30.86	53.62	40.37	53.08	49.86	52.59	59.39
	1850	59.24	16.75	58.29	22.58	57.56	32.63	56.94	42.68	56.40	52.73	55.91	62.78
ABL-250	830	37.22	10.80	36.20	17.28	35.42	23.75	34.77	30.23	34.19	36.71	33.67	43.19
	880	39.61	11.45	38.59	18.32	37.81	25.19	37.16	32.05	36.58	38.92	36.06	45.79
	930	42.00	12.10	40.98	19.36	40.20	26.62	39.55	33.88	38.97	41.13	38.45	48.39
	990	44.86	12.88	43.85	20.61	43.07	28.33	42.41	36.06	41.84	43.79	41.31	51.52
	1050	47.73	13.66	46.72	21.86	45.94	30.05	45.28	38.25	44.70	46.44	44.18	54.64
	1110	50.60	14.44	49.58	23.10	48.81	31.77	48.15	40.43	47.57	49.10	47.05	57.76
	1180	53.94	15.35	52.93	24.56	52.15	33.77	51.49	42.98	50.92	52.19	50.39	61.40
	1250	57.29	16.26	56.27	26.02	55.50	35.77	54.84	45.53	54.26	55.29	53.74	65.05
	1320	60.63	17.17	59.62	27.48	58.84	37.78	58.18	48.08	57.61	58.38	57.08	68.69
	1390	63.98	18.08	62.96	28.93	62.19	39.78	61.53	50.63	60.95	61.48	60.43	72.33
	1470	67.80	19.12	66.79	30.60	66.01	42.07	65.35	53.55	64.78	65.02	64.25	76.49

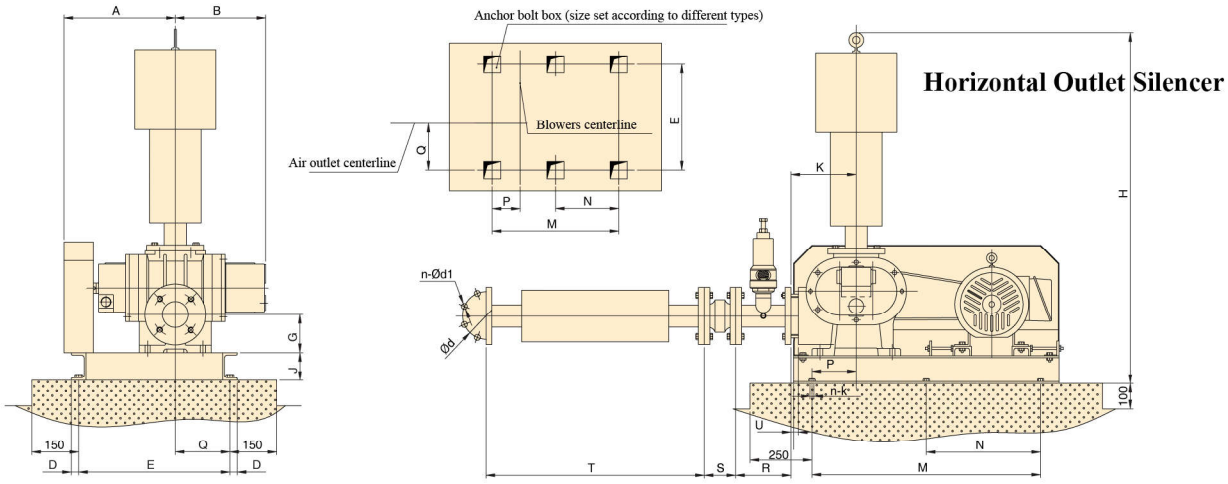
Performance Parameters

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

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
ABL-300	620	48.68	4.34	47.02	22.94	45.75	31.55	44.68	40.15	43.73	48.75	42.88	57.36
	660	52.07	15.26	50.42	24.42	49.15	33.58	48.08	42.74	47.13	51.90	46.28	61.06
	700	55.47	16.19	53.82	25.90	52.55	35.62	51.47	45.33	50.53	55.04	49.68	64.76
	740	58.87	17.11	57.21	27.38	55.94	37.65	54.87	47.92	53.93	58.19	53.08	68.46
	780	62.27	18.04	60.61	28.86	59.34	39.69	58.27	50.51	57.33	61.33	56.47	72.16
	830	66.52	19.20	64.86	30.71	63.59	42.23	62.52	53.75	61.57	65.26	60.72	76.78
	880	70.76	20.35	69.11	32.56	67.84	44.77	66.77	56.99	65.82	69.20	64.97	81.41
	930	75.01	21.51	73.36	34.41	72.09	47.32	71.01	60.22	70.07	73.13	69.22	86.03
	990	80.11	22.90	78.45	36.63	77.18	50.37	76.11	64.11	75.17	77.85	74.31	91.58
	1050	85.21	24.28	83.55	38.85	82.28	53.42	81.21	67.99	80.27	82.56	79.41	97.13
	1110	90.30	25.67	88.65	41.07	87.38	56.48	86.31	71.88	85.36	87.28	84.51	102.68
	1180	96.25	27.29	94.60	43.66	93.32	60.04	92.25	76.41	91.31	92.79	90.46	109.16
	1250	102.20	28.91	100.54	46.25	99.27	63.60	98.20	80.95	97.26	98.29	96.40	115.64
	1320	108.15	30.53	106.49	48.84	105.22	67.16	104.15	85.48	103.20	103.79	102.35	122.11
	1390	114.09	32.15	112.44	51.43	111.17	70.72	110.09	90.01	109.15	109.30	108.30	128.59
	1470	120.89	34.00	119.23	54.40	117.96	74.79	116.89	95.19	115.95	115.59	115.09	135.99

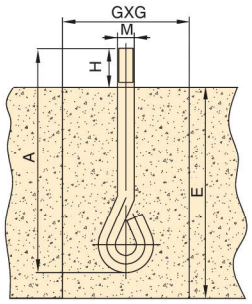
Installation Dimensions





Type	A	B	D	E	G	H	J	K	M	N	P	Q	R	S	T	U	Ød	n-Ød1	n-k
ABL-50	240	205	20	350	104	935	46	140	500	-	98	88	150	105	592	20	125	4-Ø18	
ABL-65	302	245	20	410	112	951	80	157	620		119	148	150	115	596	24	145	4-Ø18	4-M12x160
ABL-80	315	275	20	410	114	1224	80	152	620	-	117	138	180	135	796	24	160	8-Ø18	
ABL-100	405	300	20	510	107	1404	80	180	670	-	112	160	180	150	796	24	180	8-Ø18	
ABL-125	467	350	20	560	127	1878	100	180	760	-	90	233	250	165	1260	25	210	8-Ø18	4-M16x220
ABL-150	500	430.5	22	556	168	2150	120	250	900	-	137.5	278	250	180	1264	26	240	8-Ø22	
ABL-200	550	440	20	710	185	2264	160	356	1300	650	311	580	250	190	1644	28	295	8-Ø22	
ABL-250	620	530	30	940	195	2574	160	342.5	1300	650	311	454	250	230	1748	28	350	12-Ø22	6-M20x300
ABL-300	760	685	30	940	255	2699	160	362	1530	765	248	470	300	250	1848	181	400	12-Ø22	

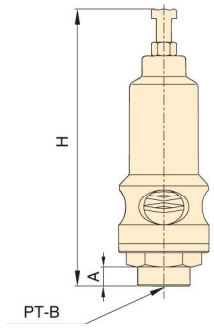
Anchor Bolt



Anchor Bolt GB799-88	A	H	E	GxG	Application Type
M12	160	36	224	100x100	ABL-50, 65, 80
M16	220	45	275	120x120	ABL-100, 125, 150
M20	300	55	345	150x150	ABL-200, 250, 300

Note: 1. The note E on the drawing is the minimum size, it shall be deepedned properly according to the soill condition in the installation place.
2. GxG is the size the preformed holes for the secondary casting.

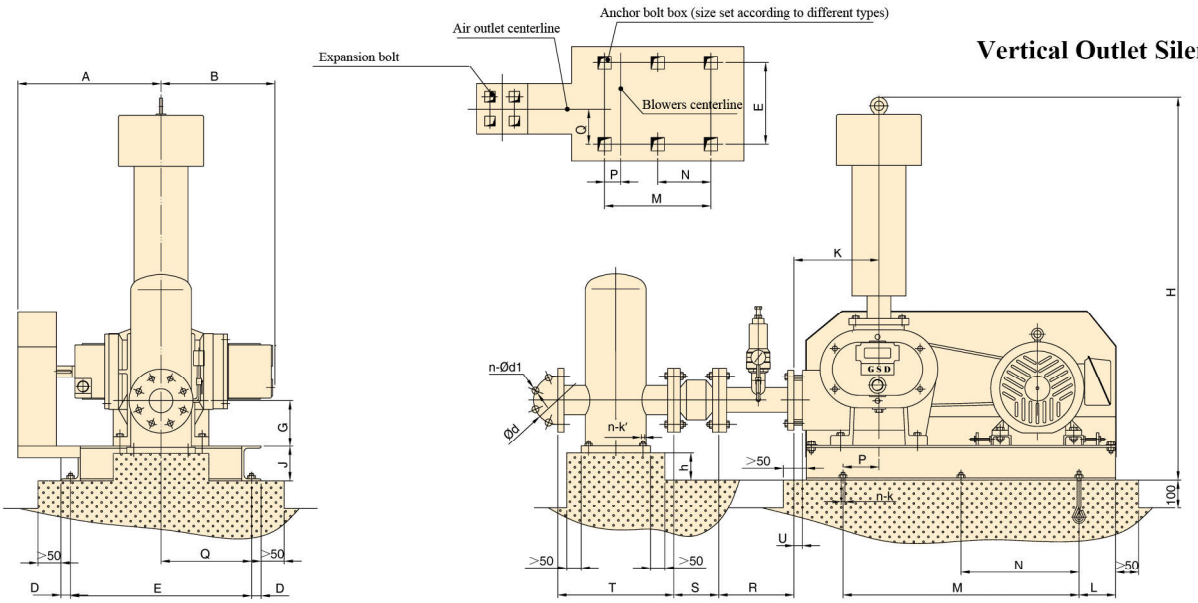
Safety Valve



Type	A	H	Application Type	Weight (kg)
SV1¼"	25	150	ABL-50, 65, 80	1.6
SV2"	25	180	ABL-100, 125, 150	2.5
SV3"	30	250	ABL-200	5.0
SV4"	25	316	ABL-250, 300	8.5

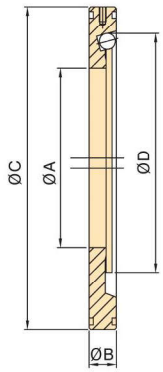
Installation Dimensions

Vertical Outlet Silencer



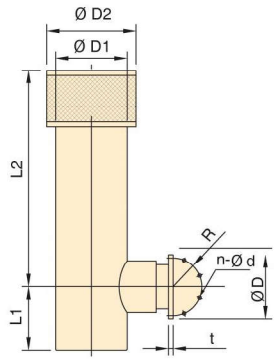
Type	A	B	D	E	G	H	J	K	M	N	P	Q	R	S	T	U	h	Ød	n-Ød1	n-k	n-k'
ABL-50	240	205	20	350	104	935	46	140	500	-	98	88	150	105	300	20	64	125	4-Ø18		
ABL-65	302	245	20	410	112	951	80	157	620		119	148	150	115	350	24	54	145	4-Ø18	4-M12x160	
ABL-80	315	275	20	410	114	1224	80	152	620	-	120	138	180	135	400	24	42	160	8-Ø18		
ABL-100	405.5	300	20	510	107	1404	100	180	670	-	112	160	180	150	450	24	60	180	8-Ø18		
ABL-125	467	350	20	560	127	1878	100	180	760	-	90	233	250	165	500	25	65	210	8-Ø18	4-M16x220	4-M12x120
ABL-150	500	430.5	22	556	168	2150	120	250	900	-	137.5	278	250	180	600	26	73	240	8-Ø22		
ABL-200	550	440	20	710	185	2264	160	356	1300	650	311	580	250	190	650	28	102	295	8-Ø22		
ABL-250	620	530	30	940	195	2574	160	342.5	1300	650	311	454	250	230	750	28	76	350	12-Ø22	6-M20x300	
ABL-300	760	685	30	940	255	2699	160	362	1530	765	248	470	300	250	820	181	65	400	12-Ø22		

Check Valve



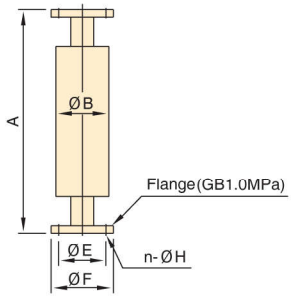
Type	ØA	B	ØC	ØD	Weight (kg)	Application Type
DCV-50	25	20	104	52.7	1.1	ABL-50
DCV-65	36	24	124	65.9	1.4	ABL-65
DCV-80	46	24	134	78.1	1.6	ABL-80
DCV-100	67	24	159	102.3	2.3	ABL-100
DCV-125	88	25	190	126.6	3.4	ABL-125
DCV-150	108	26	220	151	5.0	ABJ-150
DCV-200	138	28	270	200	10.0	ABL-200
DCV-250	185	28	335	251.4	18.0	ABL-250
DCV-300	-	181	380	300	48.0	ABL-300

Suction Silencer



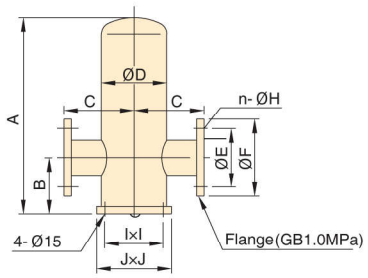
Type	A	ØB	ØC	D	ØE	ØF	n-ØH	Weight (kg)	Application Type
SS50	550	140	160	270	120	155	4-Ø18	11.0	ABL-50
SS65	550	165	180	270	140	175	4-Ø18	14.7	ABL-65
SS80	820	210	230	440	150	185	8-Ø18	25.4	ABL-80
SS100	820	240	275	440	175	210	8-Ø18	28.0	ABL-100
SS125	1310	280	315	690	210	250	8-Ø22	42.0	ABL-125
SS150	1310	300	345	690	240	280	8-Ø22	45.3	ABL-150
SS200	1500	400	460	800	290	330	12-Ø22	67.8	ABL-200
SS250	1700	400	480	900	355	400	12-Ø22	81.2	ABL-250
SS300	1825	500	600	940	400	445	16-Ø22	108.0	ABL-300

Horizontal Outlet Silencer



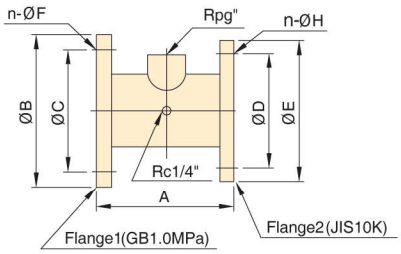
Type	A	ØB	ØE	ØF	n-ØH	Weight (kg)	Application Type
DS50	592	140	125	165	4-Ø18	13.0	ABL-50
DS65	596	165	145	185	4-Ø18	16.8	ABL-65
DS80	796	218	160	200	8-Ø18	28.3	ABL-80
DS100	796	240	180	220	8-Ø18	33.3	ABL-100
DS125	1260	280	210	250	8-Ø18	45.1	ABL-125
DS150	1264	300	240	285	8-Ø22	49.1	ABL-150
DS200	1644	400	295	340	8-Ø22	84.0	ABL-200
DS250	1748	400	350	395	12-Ø22	97.0	ABL-250
DS300	1848	500	400	445	12-Ø22	135.0	ABL-300

Vertical Outlet Silencer



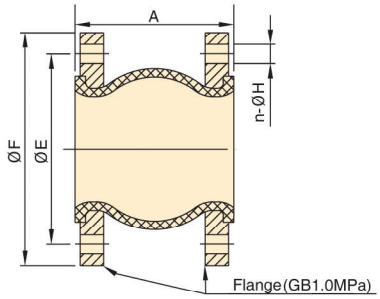
Type	A	B	C	ØD	ØE	ØF	n-ØH	I	J	Weight (kg)	Application Type
VDS50	420	120	150	140	125	165	4-Ø18	125	160	19.0	ABL-50
VDS65	480	130	175	191	145	185	4-Ø18	170	210	27.0	ABL-65
VDS80	595	145	200	216	160	200	8-Ø18	190	235	36.9	ABL-80
VDS100	660	155	225	267	180	220	8-Ø18	230	280	51.8	ABL-100
VDS125	800	190	250	280	210	250	8-Ø18	240	300	65.9	ABL-125
VDS150	920	210	300	356	240	285	8-Ø22	290	376	99.6	ABL-150
VDS200	1050	256	325	406	295	340	8-Ø22	350	425	131.5	ABL-200
VDS250	1200	300	375	480	350	395	12-Ø22	400	500	184.3	ABL-250
VDS300	1300	350	410	520	400	445	12-Ø22	450	550	243.0	ABL-300

“T”-Joint



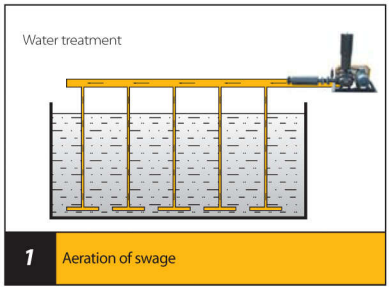
Type	A	ØB	ØC	n-ØF	ØD	ØE	n-ØH	g	Weight (kg)	Application Type
HJ50	150	165	125	4-Ø18	120	155	4-Ø18	1 1/4	7.3	ABL-50
HJ65	150	185	145	4-Ø18	140	175	4-Ø18	1 1/4	9.0	ABL-65
HJ80	180	200	160	8-Ø18	150	185	8-Ø18	1 1/4	9.6	ABL-80
HJ100	180	220	180	8-Ø18	175	210	8-Ø18	2	10.7	ABL-100
HJ125	250	250	210	8-Ø18	210	250	8-Ø22	2	14.5	ABL-125
HJ150	250	285	240	8-Ø22	240	280	8-Ø22	2	20.8	ABL-150
HJ200	250	340	295	8-Ø22	290	330	12-Ø22	3	26.0	ABL-200
HJ250	250	395	350	12-Ø22	355	400	12-Ø22	3	35.0	ABL-250
HJ300	300	445	400	12-Ø22	400	445	16-Ø22	3	44.7	ABL-300

Flexible Connector

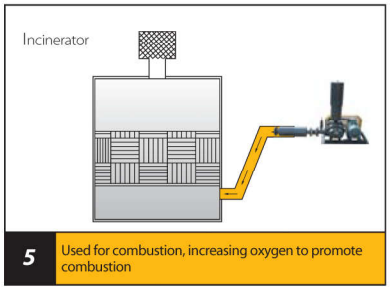


Type	A	ØE	ØF	n-ØH	Weight (kg)	Application Type
KXT50	105	125	165	4-Ø18	3.0	ABL-50
KXT65	115	145	185	4-Ø18	3.5	ABL-65
KXT80	135	160	200	8-Ø18	4.0	ABL-80
KXT100	150	180	220	8-Ø18	5.0	ABL-100
KXT125	165	210	250	8-Ø18	6.5	ABL-125
KXT150	180	240	285	8-Ø22	9.5	ABL-150
KXT200	190	295	340	8-Ø22	16.0	ABL-200
KXT250	230	350	395	12-Ø22	25.0	ABL-250
KXT300	250	400	445	12-Ø22	42.0	ABL-300

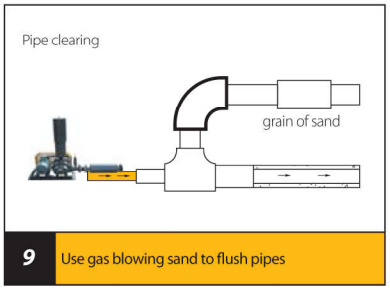
Applications



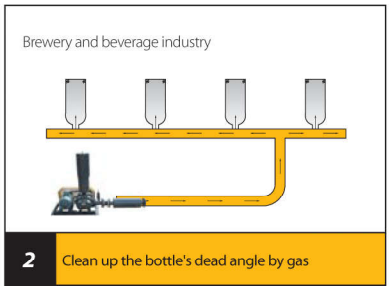
1 Aeration of swage



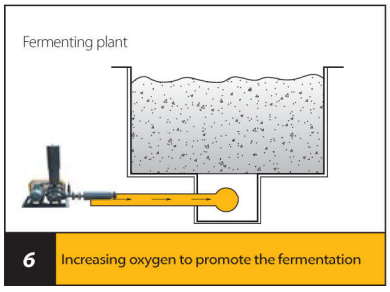
5 Used for combustion, increasing oxygen to promote combustion



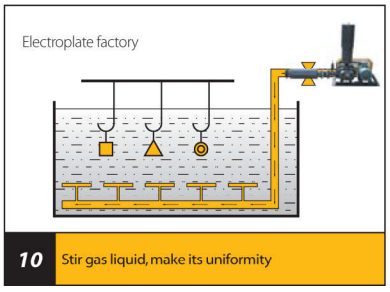
9 Use gas blowing sand to flush pipes



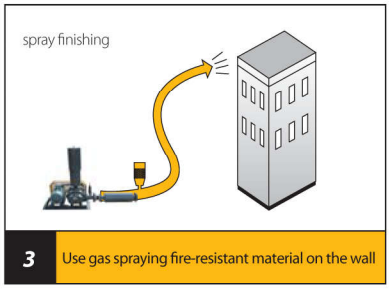
2 Clean up the bottle's dead angle by gas



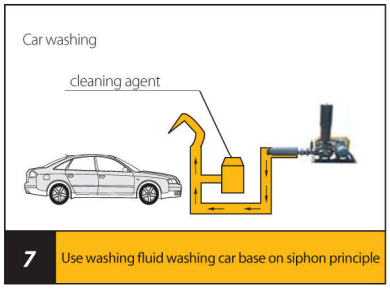
6 Increasing oxygen to promote the fermentation



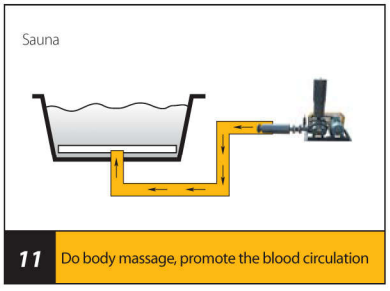
10 Stir gas liquid, make its uniformity



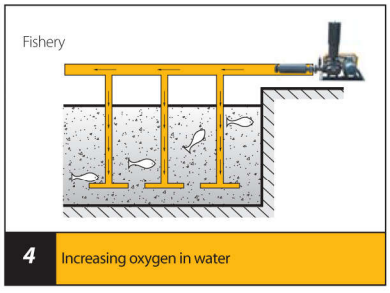
3 Use gas spraying fire-resistant material on the wall



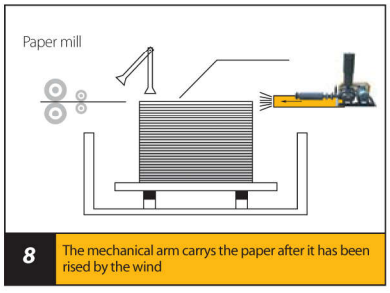
7 Use washing fluid washing car base on siphon principle



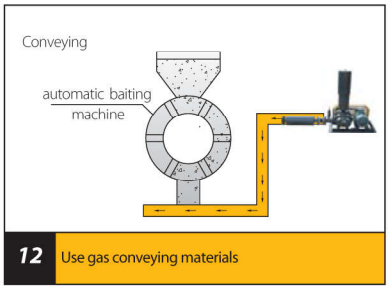
11 Do body massage, promote the blood circulation



4 Increasing oxygen in water



8 The mechanical arm carrys the paper after it has been rised by the wind



12 Use gas conveying materials