

## Showfou air blowers

Wednesday, 23 February 2011 02:11 administrator



ShowFou air blowers- Series RLC - Taiwan

Used to provide air in the aerobic biological processes, harmonic mixing in the tank, ....



### AIR BLOWERS (M3/min)

No.	MODEL	Volts	Power HP	Head M	Flow Q (m3/min)
1	<b>RLC – 40</b>	380 V/Hz	2.2 kw	5	1.22
2	<b>RLC – 50</b>	380 V/Hz	3.7 kw	5	2.27
3	<b>RLC – 65</b>	380 V/Hz	5.5 kw	5	3.36
4	<b>RLC – 80</b>	380 V/Hz	7.5 kw	5	5.38
5	<b>RLC – 100</b>	380 V/Hz	11 kw	5	8.38
6	<b>RLC – 100</b>	380 V/Hz	12.5 kw	5	10.17
7	<b>RLC – 150</b>	380 V/Hz	30 kw	5	24.8
8	<b>RLC – 200</b>	380 V/Hz	37 kw	5	37.05
9	<b>RLC – 200</b>	380 V/Hz	47.67 kw	5	39.87
10	<b>RLC – 250</b>	380 V/Hz	59.13 kw	5	53.12
11	<b>RLC – 300</b>	380 V/Hz	75.32 kw	5	69.45

Last Updated ( Monday, 14 March 2011 03:45 )

# RLC (RL) PERFORMANCE TABLE

# (FOR PRESSURE OPERATION)

■ RLC - Complete Set   ■ RL - Blower Body only

TYPE	Bore Inch(mm)	Revolution R.P.M.	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
			9.8kpa		19.6kpa		29.4kpa		39.4kpa		49.0kpa		58.8kpa		68kpa		78.4kpa	
			m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw
40	1½ (40)	800	0.70	0.25	0.56	0.50	0.45	0.77	0.35	0.94	0.26	1.14	0.21	1.34	0.15	1.52	0.10	1.70
		900	0.85	0.28	0.71	0.56	0.61	0.81	0.50	1.05	0.42	1.27	0.36	1.50	0.30	1.71	0.26	1.91
		1000	1.01	0.31	0.87	0.62	0.75	0.90	0.67	1.16	0.58	1.43	0.50	1.67	0.46	1.90	0.40	2.12
		1100	1.17	0.35	1.03	0.68	0.92	0.99	0.82	1.34	0.73	1.57	0.67	1.84	0.61	2.09	0.56	2.34
		1200	1.32	0.36	1.19	0.74	1.08	1.08	0.98	1.40	0.88	1.71	0.83	2.01	0.77	2.29	0.72	2.45
		1300	1.48	0.41	1.34	0.80	1.23	1.17	1.14	1.52	1.05	1.86	0.98	2.18	0.93	2.47	0.88	2.56
		1400	1.64	0.44	1.51	0.86	1.40	1.26	1.29	1.63	1.22	1.99	1.14	2.34	1.08	2.66	1.04	2.66
		1500	1.80	0.47	1.66	0.92	1.56	1.35	1.45	1.75	1.36	2.14	1.30	2.51	1.24	2.85	1.20	2.98
		1600	1.96	0.50	1.82	0.98	1.72	1.44	1.61	1.87	1.52	2.28	1.46	2.67	1.41	3.04	1.36	3.30
		1700	2.13	0.57	1.98	1.05	1.87	1.53	1.77	1.99	1.68	2.42	1.61	2.84	1.55	3.23	1.52	3.67
1800	2.29	0.57	2.14	1.11	2.03	1.62	1.93	2.11	1.83	2.56	1.77	3.01	1.71	3.42	1.67	3.93		
1900	2.45	0.60	2.30	1.20	2.19	1.71	2.09	2.23	1.99	2.70	1.92	3.18	1.86	3.61	1.82	4.26		
50	2(50)	800	1.16	0.42	0.92	0.83	0.75	1.29	0.58	1.56	0.44	1.90	0.34	2.22	0.24	2.53	0.17	2.83
		900	1.42	0.47	1.18	0.93	1.00	1.35	0.84	1.75	0.70	2.12	0.60	2.50	0.50	2.85	0.43	3.19
		1000	1.68	0.52	1.45	1.03	1.26	1.50	1.10	1.94	0.96	2.38	0.85	2.78	0.76	3.17	0.68	3.54
		1100	1.94	0.58	1.72	1.13	1.53	1.65	1.37	2.24	1.21	2.62	1.11	3.06	1.02	3.49	0.94	3.90
		1200	2.21	0.63	1.99	1.23	1.80	1.79	1.63	2.33	1.48	2.85	1.37	3.34	1.29	3.81	1.20	4.08
		1300	2.47	0.69	2.26	1.33	2.06	1.95	1.90	2.53	1.74	3.09	1.64	3.62	1.55	4.11	1.46	4.27
		1400	2.73	0.74	2.51	1.44	2.33	2.10	2.15	2.72	2.01	3.32	1.90	3.89	1.81	4.44	1.74	4.44
		1500	3.00	0.79	2.78	1.54	2.59	2.25	2.42	2.92	2.27	3.56	2.17	4.17	2.07	4.76	2.00	4.96
		1600	3.27	0.84	3.04	1.64	2.86	2.40	2.69	3.12	2.54	3.80	2.43	4.45	2.34	5.08	2.27	5.46
		1700	3.55	0.90	3.30	1.75	3.12	2.55	2.94	3.32	2.80	4.03	2.69	4.73	2.59	5.39	2.53	6.12
1800	3.81	0.95	3.57	1.85	3.39	2.70	3.21	3.52	3.06	4.26	2.95	5.01	2.85	5.70	2.78	6.56		
1900	4.08	1.00	3.84	1.95	3.65	2.85	3.48	3.72	3.31	4.49	3.21	5.29	3.11	6.01	3.04	7.09		
65	2½ (65)	800	1.95	0.58	1.78	1.14	1.61	1.66	1.46	2.16	1.33	2.62	1.21	3.07	1.12	3.49	1.03	3.91
		900	2.28	0.79	2.11	1.28	1.94	1.86	1.79	2.42	1.65	2.95	1.54	3.45	1.45	3.93	1.35	4.40
		1000	2.63	1.14	2.46	1.42	2.29	2.06	2.12	2.69	1.99	3.28	1.89	3.83	1.78	4.35	1.69	4.89
		1100	2.97	1.29	2.80	1.57	2.62	2.28	2.47	2.96	2.34	3.61	2.23	4.22	2.12	4.81	2.03	5.38
		1200	3.27	1.44	3.14	1.71	2.96	2.49	2.80	3.23	2.68	3.93	2.56	4.60	2.46	5.24	2.36	5.86
		1300	3.63	1.54	3.48	1.85	3.29	2.70	3.14	3.50	3.01	4.26	2.90	4.98	2.80	5.68	2.70	6.35
		1400	3.99	1.64	3.82	1.99	3.64	2.91	3.50	3.77	3.36	4.59	3.24	5.37	3.15	6.12	3.04	6.84
		1500	4.34	1.74	4.16	2.13	3.98	3.11	3.83	4.04	3.70	4.91	3.58	5.75	3.48	6.55	3.38	7.32
		1600	4.67	1.84	4.51	2.27	4.32	3.32	4.17	4.31	4.03	5.24	3.92	6.13	3.82	6.98	3.72	8.28
		1700	5.02	1.94	4.86	2.42	4.66	3.53	4.52	4.57	4.37	5.57	4.26	6.51	4.17	7.42	4.07	8.30
1800	5.36	2.04	5.20	2.56	5.00	3.73	4.86	4.85	4.71	5.89	4.60	6.89	4.50	7.85	4.41	8.78		
1900	5.71	2.14	5.53	2.70	5.34	3.94	5.19	5.12	5.05	6.22	4.94	7.27	4.84	8.28	4.75	9.27		
80	3(80)	800	2.91	1.40	2.55	2.12	2.23	2.81	1.93	3.51	1.67	4.31	1.42	5.43	1.21	6.55	1.02	7.67
		900	3.51	1.50	3.25	2.32	2.93	3.14	2.63	3.84	2.36	4.64	2.12	5.76	1.89	6.88	1.70	8.00
		1000	4.21	1.60	3.95	2.53	3.63	3.47	3.33	4.25	3.06	5.52	2.82	6.64	2.61	7.06	2.42	8.18
		1100	4.91	1.70	4.65	2.75	4.33	3.80	4.03	4.70	3.76	5.71	3.52	6.83	3.31	7.95	3.12	9.07
		1200	5.40	1.80	5.14	2.91	4.82	4.03	4.52	5.04	4.29	6.05	4.07	7.17	3.84	8.29	3.65	9.41
		1300	6.05	1.90	5.75	3.20	5.43	4.25	5.13	5.60	4.95	6.72	4.69	7.84	4.48	8.96	4.29	10.08
		1400	6.53	2.00	6.27	3.47	5.95	4.59	5.65	5.82	5.38	7.05	5.14	8.28	4.93	9.56	4.74	10.81
		1500	7.00	2.10	6.74	3.50	6.42	5.04	6.12	6.27	5.85	7.50	5.61	8.96	5.40	10.42	5.21	11.88
		1600	7.76	2.20	7.50	3.92	7.18	5.26	6.86	6.66	6.61	8.06	6.37	9.52	6.16	10.98	5.97	12.44
		1700	8.26	2.32	8.00	4.15	7.67	5.53	7.36	7.04	7.08	8.53	6.83	10.04	6.61	11.54	6.42	13.04
1800	8.83	2.42	8.52	4.37	8.17	5.87	7.86	7.49	7.59	8.98	7.33	10.59	7.12	12.21	6.92	13.82		
1900	9.32	2.52	8.97	4.83	8.64	6.20	8.33	7.82	8.06	9.43	7.81	11.15	7.59	12.63	7.39	14.14		
100	4(100)	800	5.08	1.37	4.51	2.65	4.00	3.80	3.54	4.88	3.14	5.68	2.79	6.78	2.48	7.62	2.20	8.43
		900	5.91	1.55	5.33	3.00	4.82	4.31	4.36	5.52	3.96	6.55	3.60	7.67	3.29	8.63	3.01	9.54
		1000	7.08	1.83	6.47	3.52	5.93	5.06	5.44	6.48	5.02	7.79	4.64	9.00	4.31	10.13	4.02	11.18
		1100	7.92	2.01	7.31	3.87	6.77	5.56	6.28	7.12	5.86	8.67	5.48	9.90	5.15	11.14	4.75	12.29
		1200	8.76	2.19	8.15	4.22	7.61	6.07	7.12	7.77	6.70	9.55	6.32	10.80	5.99	12.15	5.70	13.41
		1300	9.60	2.38	8.99	4.57	8.45	6.58	7.96	8.42	7.54	10.43	7.16	11.70	6.83	13.17	6.54	14.53
		1400	10.44	2.56	9.83	4.92	9.29	7.08	8.86	9.07	8.38	11.31	8.00	12.60	7.67	14.18	7.38	15.69
		1500	11.34	2.67	10.75	4.93	10.23	7.59	9.75	9.72	9.25	12.22	8.88	13.50	8.56	15.19	8.28	16.75
		1600	12.17	2.89	11.58	5.45	11.05	8.09	10.58	10.37	10.17	12.73	9.80	14.40	9.48	16.20	9.20	17.87
		1700	13.00	3.12	12.41	5.97	11.88	8.60	11.40	11.01	11.00	13.23	10.63	15.30	10.31	17.21	10.03	18.99
1800	13.83	3.34	13.42	6.50	13.01	9.10	12.53	11.66	12.12	13.87	11.70	16.20	11.37	18.22	11.06	20.11		
1900	14.65	3.57	14.15	7.03	13.75	9.61	13.32	12.31	12.91	14.25	12.54	17.10	12.22	19.23	11.94	21.23		

Note: 1. The values are expressed as required power including drive power for the transmission unit.

2. The rated range for the air volume at specified  $\pm 5\%$ .

3. When the design pressure is 8000 mmAq and above, shall be applied RW type (water-cooling design)

# RLC (RL) PERFORMANCE TABLE

# (FOR PRESSURE OPERATION)

■ RLC - Complete Set    ■ RL - Blower Body only

TYPE	Bore	Revolution	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq	
			9.8kpa	19.6kpa	29.4kpa	39.4kpa	49.0kpa	58.8kpa	68kpa	78.4kpa								
	inch(mm)	R.P.M.	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw	m³/min	kw
125	5(125)	700	9.94	3.31	9.06	5.36	8.38	7.31	7.90	9.35	7.40	11.31	6.91	13.35	6.55	15.31	6.19	17.27
		800	11.52	3.78	10.57	6.07	9.84	8.38	9.32	10.68	8.79	12.98	8.27	15.29	7.86	17.59	7.52	19.89
		900	13.14	4.20	12.29	6.73	11.56	9.36	10.93	11.98	10.40	14.61	9.99	17.13	9.56	19.65	9.19	22.18
		1000	15.05	4.55	14.02	7.45	13.34	10.34	12.74	13.24	12.20	16.03	11.72	18.92	11.79	21.92	10.67	24.82
		1100	16.72	5.10	15.80	8.25	15.10	11.29	14.42	14.55	13.90	17.81	13.38	21.07	12.92	24.98	12.40	28.90
		1200	18.45	5.32	17.51	8.86	16.79	12.31	16.23	15.74	15.74	19.18	15.26	22.93	14.80	26.69	14.30	30.44
		1300	20.11	5.77	19.15	9.62	18.40	13.27	17.87	17.32	17.32	20.75	16.79	24.81	16.37	28.88	15.86	32.19
		1400	21.77	6.23	20.78	10.28	20.01	14.22	19.47	18.27	18.93	22.97	18.38	27.35	17.94	30.63	17.42	33.91
		1500	23.49	6.65	22.50	10.97	21.73	15.30	21.05	19.50	20.51	24.38	20.06	28.82	19.61	35.46	19.08	37.69
		1600	25.27	7.06	24.33	11.59	23.70	16.21	23.06	20.74	22.54	26.33	21.98	30.54	21.59	34.75	21.24	38.97
		1700	27.01	7.38	26.05	12.35	25.32	17.19	24.79	23.21	24.27	27.43	23.73	32.71	23.31	36.92	22.93	41.43
1800	28.74	8.17	27.79	13.11	27.05	18.18	26.52	24.30	26.00	29.59	25.46	34.87	25.08	39.04	24.71	43.20		
150	6(150)	700	13.09	3.99	11.97	6.65	11.25	9.21	10.54	11.77	9.93	14.42	9.41	16.98	8.98	19.54	8.66	22.09
		800	15.06	4.62	13.96	7.59	13.19	10.44	12.41	13.41	11.76	16.38	11.21	19.45	10.71	22.53	10.36	25.60
		900	17.32	4.96	16.22	8.38	15.34	11.81	14.56	15.12	14.01	18.43	13.35	22.06	12.89	25.70	12.35	29.34
		1000	19.54	5.65	18.46	9.33	17.59	13.03	16.93	16.72	16.29	20.41	15.64	23.89	15.09	27.36	14.80	30.95
		1100	21.89	6.15	20.75	10.26	19.84	14.36	19.04	18.47	18.47	22.57	17.78	27.38	17.31	32.20	16.94	37.00
		1200	23.97	6.67	22.88	11.05	21.99	15.53	21.34	19.92	20.69	25.17	20.14	29.55	19.69	33.93	19.33	38.30
		1300	26.16	7.19	24.93	12.58	24.14	16.73	23.35	21.56	22.79	26.95	22.12	31.44	21.67	35.93	21.33	40.42
		1400	28.24	7.69	27.09	12.86	26.18	18.03	25.49	24.07	24.80	28.71	24.22	34.45	23.79	40.19	23.41	46.94
		1500	30.48	8.26	29.32	13.72	28.39	19.31	27.57	25.59	26.99	31.41	26.41	37.22	25.93	43.04	25.57	48.86
		1600	32.83	8.74	31.73	14.59	30.85	20.56	30.07	27.64	29.52	33.16	28.96	37.73	28.52	43.26	28.17	48.79
		1700	34.99	9.19	33.88	15.50	33.00	21.85	32.34	28.79	31.67	35.44	31.11	40.97	30.61	46.41	30.26	52.05
1800	37.26	9.20	36.16	16.41	35.27	23.29	34.49	29.95	33.94	36.60	33.26	43.26	32.75	49.91	32.39	56.57		
200	8(200)	600	23.52	6.77	21.87	11.52	20.52	16.26	19.45	21.29	18.58	25.16	17.61	30.97	16.84	35.81	16.16	40.65
		700	27.90	7.90	26.20	13.40	24.90	18.90	23.80	24.00	22.80	30.00	21.90	37.00	23.00	44.00	22.30	47.00
		800	32.67	9.06	31.04	15.33	29.69	22.17	28.63	27.95	27.66	35.66	26.89	41.45	26.12	47.23	25.45	53.01
		900	37.26	10.06	35.61	17.13	34.26	24.19	33.19	30.97	32.32	38.71	31.45	45.48	30.68	52.26	30.00	59.03
		1000	41.90	11.05	40.29	19.05	38.95	26.67	37.90	35.24	37.05	42.86	36.19	50.48	35.43	58.10	34.76	65.71
		1100	46.70	12.20	45.00	21.00	43.70	30.00	42.60	39.00	41.60	48.00	40.70	56.00	39.90	65.00	39.20	74.00
		1200	50.98	13.25	49.34	23.04	48.10	31.68	47.04	42.24	46.08	50.88	45.22	60.48	44.45	69.12	43.78	79.68
		1300	55.45	14.28	53.77	24.62	52.49	34.47	51.41	45.30	50.42	55.15	49.54	65.00	48.75	75.83	48.06	86.67
1400	59.93	15.31	58.22	26.19	56.91	38.27	55.80	48.35	54.79	59.42	53.99	70.50	53.08	81.58	52.05	92.66		
250	10(250)	600	31.94	8.82	30.00	15.15	28.55	21.78	27.29	29.05	26.13	34.24	25.06	41.50	24.37	46.68	23.71	51.87
		700	37.80	10.29	35.90	17.69	34.30	25.73	33.00	32.16	32.00	40.74	30.90	48.24	29.90	54.67	29.20	61.10
		800	44.24	11.57	42.22	20.14	40.67	28.92	39.52	37.20	38.46	46.50	37.40	53.73	36.43	62.00	35.93	70.27
		900	50.32	12.97	48.39	22.82	46.94	31.12	45.77	41.50	44.52	50.84	43.45	60.17	42.77	69.50	42.10	78.83
		1000	56.48	14.29	54.67	24.50	53.05	34.71	51.90	45.94	50.76	56.19	49.81	66.55	48.95	77.59	48.19	88.63
		1100	63.00	15.75	61.00	27.87	59.40	39.66	58.10	51.46	57.00	62.18	56.00	73.97	55.00	85.76	54.20	97.55
		1200	68.64	17.09	66.82	29.85	65.28	43.22	64.03	56.46	62.88	66.89	61.92	80.28	61.06	92.62	60.19	104.93
		1300	74.65	18.48	72.78	31.67	71.20	46.46	69.92	59.09	68.74	72.85	67.76	86.57	66.87	99.94	66.08	113.36
1400	80.68	19.86	78.56	34.55	77.05	49.66	75.90	63.71	74.63	78.82	73.63	93.93	72.52	109.08	71.71	124.19		
300	12(300)	600	71.2	18.1	68.0	33.8	65.3	48.1	62.6	61.4	60.5	73.6	58.5	84.9	56.8	95.5	55.3	105.2
		700	85.5	20.8	81.4	39.2	78.7	55.9	76.0	71.4	73.9	85.6	71.9	98.8	70.2	111.1	68.7	122.5
		800	98.5	23.7	94.8	44.7	92.1	63.8	89.4	81.4	87.3	97.7	85.3	112.7	83.6	126.8	82.1	139.8
		900	111.5	26.6	108.2	50.1	105.6	71.6	102.9	91.4	100.8	109.7	98.8	126.7	97.1	142.4	95.6	157.1
		1000	124.5	29.6	121.6	57.0	118.9	80.9	116.2	102.9	114.1	123.3	112.1	142.1	110.4	159.6	108.9	176.0
		1100	138.1	34.5	135.1	63.9	132.4	90.2	129.7	114.4	127.6	136.8	125.6	157.6	123.9	176.9	122.4	194.8
		1200	151.7	39.5	148.5	70.8	145.8	99.5	143.1	125.9	141.0	150.4	139.0	171.9	137.3	194.1	135.8	213.7
		1300	165.3	44.5	162.1	83.6	159.4	108.8	156.7	137.4	154.6	164.0	152.6	188.4	150.9	211.3	149.4	232.6
1400	178.0	47.9	174.6	90.0	171.7	117.2	168.8	148.0	166.5	176.6	164.3	202.9	162.5	227.6	160.9	250.5		

# NOISE LEVEL - RLC · RWC TYPE

## 1. Measure method (1.0m On Machine Side)

For your information, the following noise reading are the average value measured at a distance 1m from the SHOWFOU blowers under standard condition.

## 2. Noise prevention method

The noise of SHOWFOU blower has direct relationship with the factors such as blower size, discharge pressure and R.P.M. To get even greater effectiveness in noise reduction, please refer to some methods as follow :

1. Establish the silencer to inlet and outlet to prevent the noise of air flow.
2. Decrease the revolution of blower to reduce the noise of it.
3. Use the expansion joint or the rubber vibration isolator to prevent the surging and vibration.

