

Vane Air Motors

LZB and LZL

LZB

0.1 – 2.80 KW

The Atlas Copco LZB vane air motors are compact in design, light in weight and available in a variety of different gear ratios to meet a variety of speed requirements. They are particularly suited to be built into hand held machines and also many different types of industrial equipment. These data are a summary of our range; please consult our air motor catalogue or our website to choose the right one for you.



Model	Max output		Speed range at max output r/min	Torque range at max output		Min start torque range		Free speed r/min	No. of gear ratios	Motor diameter	
	kW	hp		Nm	ft lb	Nm	ft lb			mm	in
Non-reversible											
LZB14	0.16	0.21	320-9100	0.17-4.8	0.13-3.5	0.23-8.5	0.17-6.27	700-19500	5	27	1.1
LZB22	0.27	0.36	210-9600	0.27-11.8	0.20-8.7	0.32-22	0.24-16.2	480-21500	7	36	1.4
LZB33/34	0.39	0.52	10-9400	0.40-349	0.30-257	0.69-680	0.51-502	20-19000	17	42	1.7
LZB42	0.71	0.95	23-10000	0.68-272	0.5-201	1.09-435	0.80-321	42-19000	12	46	1.8
LZB46	0.84	1.13	25-10800	0.74-299	0.55-221	1.20-485	0.88-358	45-20000	12	46	1.8
LZB54	1.20	1.61	70-10000	1.15-161	0.85-119	1.80-261	1.33-193	125-18000	10	60	2.4
LZB66	1.87	2.51	55-8200	2.2-308	1.62-227	3.2-456	2.4-336	110-16000	10	60	2.4
LZB77	2.80	3.75	80-1220	22-332	16-245	35-536	26-395	165-2600	7	100	3.9
Reversible											
LZB14	0.11	0.15	250-7000	0.15-4.3	0.11-3.2	0.24-6.9	0.18-5.1	490-13000	5	27	1.1
LZB22	0.16	0.21	5-7000	0.24-10.5	0.18-7.7	0.32-14	0.24-10.3	5-13100	9	36	1.4
LZB33/34	0.25	0.34	7-7000	0.34-300	0.25-221	0.46-412	0.34-304	10-13300	21	42	1.6
LZB42	0.53	0.71	19-8000	0.63-255	0.46-188	0.85-344	0.63-254	33-14200	12	46	1.8
LZB46	0.63	0.84	20-8500	0.71-287	0.52-212	0.96-388	0.71-286	35-15800	12	46	1.8
LZB54	0.82	1.10	47-6800	1.15-161	0.85-119	1.40-207	1.03-153	90-12000	10	60	2.4
LZB66	1.46	1.96	50-7500	1.9-259	1.4-191	2.4-337	1.8-249	90-13500	10	60	2.4
LZB77	2.40	3.22	80-1280	18-274	13.3-202	24-374	18-276	155-2300	7	100	3.9

The LZB14, LZB22 and LZB33 models are available in lubrication-free versions. LZB14, LZB22 and LZB33 can be obtained in a stainless steel version. The standard non-reversible motors have clockwise rotation but can also be obtained with anti-clockwise rotation.

LZL

1.7 – 6.5 KW

The Atlas Copco LZL vane motors are reversible air motors which have been designed to offer outstanding starting and low speed performance. These general purpose motors are powerful, durable and offer long service life.



Model	Torque at 3000 r/min		Power at 3000 r/min		Stall torque		Air consumption at 3000 r/min ^a		Max allowed speed r/min	Weight	
	Nm	ft lb	kW	hp	Nm	ft lb	l/s	cfm		kg	lb
LZL03 M	1.3	0.95	0.41	0.55	3.3	2.4	16	34	3000	2.9	6.4
LZL05 M	2.0	1.5	0.63	0.84	5.8	4.3	25	52	3000	3.9	8.6

^a Note that the air consumption in a typical mixing application normally is less than 50% of the values in the table

LZL 03/05 available with IEC and Nema flange. LZL05 also available in stainless steel.

Model	Max output		Speed at max output	Torque at max output		Min start torque		Max allowed speed r/min	No. of gear ratios
	kW	hp	r/min	Nm	ft lb	Nm	ft lb		
Motor only									
LZL03 S	1.7	2.5	7500	2.2	1.6	2.8	2.1	11000	—
LZL05 S	2.1	2.8	6300	3.1	2.3	4.8	3.5	9200	—
LZL15	3.2	4.3	4500	6.8	5.0	10.9	8.0	7200	—
LZL25	5.0	6.7	4000	12.0	8.8	18.0	13.2	6000	—
LZL35	6.5	8.7	3100	20.0	14.7	32.0	23.6	5000	—
With helical gear unit									
LZL05 a	2.0	2.6	45-512	36-403	27-297	56-624	41-460	65-740	6
LZL15 a	3.0	4.1	26-389	74-1071	55-790	116-1668	86-1230	43-639	6
LZL25 a	4.8	6.4	25-370	128-1836	94-1354	192-2754	141-2031	36-531	6
LZL35 a	6.2	8.3	61-464	128-944	94-696	192-1417	141-1045	111-838	4

^a Not ATEX certified.