Rotary lobe blower packages

Atlas Copco

ZL 100 - 10000 1.5 - 250 kW

Atlas Copco has been setting the industry standard in compressed air technology for more than a century. An on-going interaction with our customers, a passion to bring true innovations that increase their productivity, and the commitment to create more value for them, have earned us the market leadership.

Our dedication to offer the best products and services is not limited to Plant Air solutions, but extends to Low Pressure Air applications, meeting the exact needs of the specific process. Around the clock and around the globe, the ZL blower series is proving to be a trusted partner for the low pressure air process.

Reliable, quality air

Whether it is for pneumatic conveying of granulates or powders, liquid homogenizing, aeration and filter flushing in water treatment plants, air supply to furnaces, drying of yarn or process air in chemical plants, the ZL series offers reliable, uninterrupted operation around the clock.

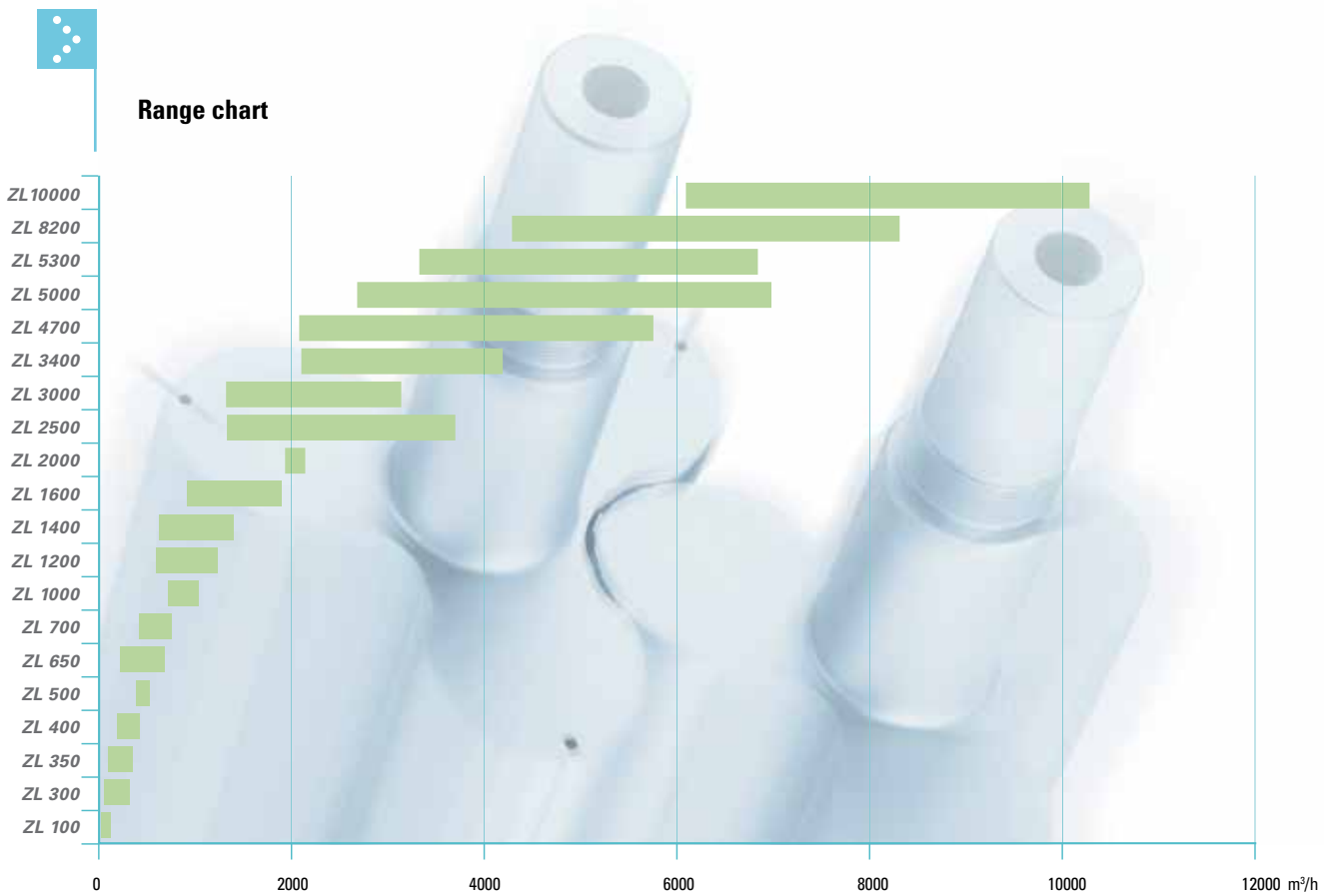
Complete range

The ZL range consists of 20 sizes for intake volumes of 100 to over 10000 m^3/h, at pressures of up to 1000 mbar, depending on the blower size.

The Atlas Copco ZL is a low noise, low vibration and low pulsation blower that comes in a complete, ready-to-run package. Because of the total separation of element and oil system, the ZL blower delivers top quality oil-free air; the risk of product contamination or environmental pollution is non-existent by design.

The tri-lobe concept and the pre-filling canals ensure low pulsation air, a prolonged lifetime of rotating components, reduced noise and vibration levels and improved energy efficiency.

Range chart



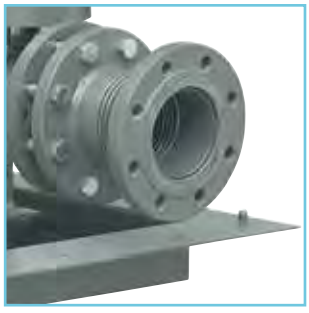
Rational design for superior performance

Ruggedized filter/inlet
for reduced vibrations

Suitable for harsh
environments

IP55 electric motor
compact design for space savings

Start-up & pressure relief valve
reliable and simple



Flanged outlet
for simplified piping connection

Check valve
for easy field installation

Complete package

The Atlas Copco ZL blower comes as a fully equipped machine. There are no hidden extras or costly additions.

Automatic belt tensioner
for longer belt lifetime and reduced maintenance

Vibro-isolating mounts
for low vibration and quieter operation

Integral outlet silencer
for dampening of pressure pulsations

Standard version

- IP55 electric motor
- inlet and outlet silencers
- inlet filter
- pressure relief valve (ZL 100 - 700)
- start valve / pressure relief valve (ZL 1000 - 10000)
- outlet flange compensator
- outlet check valve
- automatic belt tensioner
- filter change indicator
- discharge pressure gauge
- low vibration and quieter operation belt-drive cover
- package vibration isolators

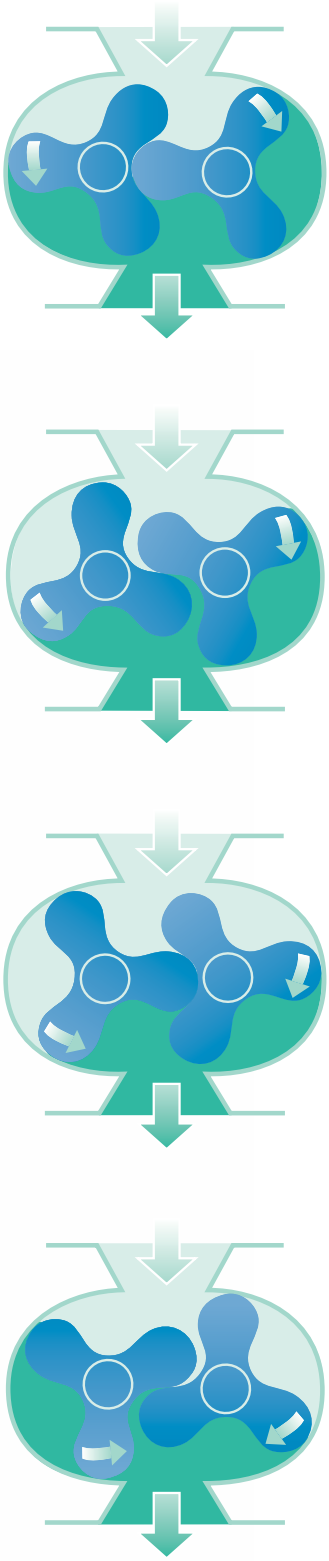
Options

- sound insulated enclosure with canopy ventilation
- fitted with Full Option motor
- no motor
- belt guard (models with canopy)
- oil fill

Trusted technology

In the ZL blower element, two tri-lobe rotors turn inside an oval shaped casing. The motor transmits its power to the driving lobe, which in turn drives the driven lobe via timing gears. Hence, both rotors turn at the same speed, in opposite directions.

The rotors maintain a high precision clearance between each other and the wall of the casing. As a result, no internal lubrication is required and air remains 100% oil-free.



Compression principle

As the rotors turn, air is drawn into the blower when the lobe end of each rotor passes the suction port. The air is caught between two rotor tips and the casing; as the rotors continue their revolution, this volume is transferred from suction side to discharge side. With each turn, six of these enclosed volumes are displaced.

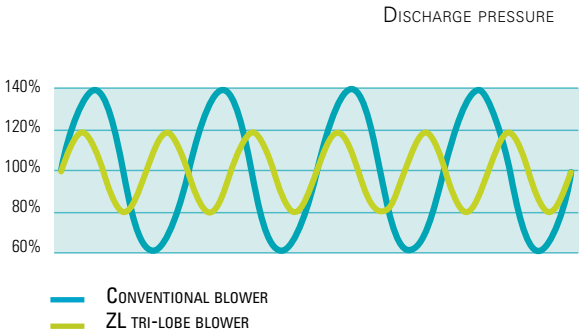
The ZL series delivers an almost constant flow rate, independent of the discharge pressure conditions. The flow rate is proportional to the operating speed.

Tri-lobe advantages

Pulsation-free air

Traditionally, positive displacement blowers were designed around two-lobe rotors. The ZL series is based on tri-lobe rotors, which offer superior energy efficiency and a significantly smoother flow.

For further reduction of pressure pulsations, special canals have been milled in the blower casing, to pre-fill the reverse chamber. This design prolongs the lifetime of the flexible elements of aerating systems, but also protects conveyor systems against undesirable pulsations. Inside the blower, the reduction in pulsations has many advantages as well: less vibrations are transmitted to the bearings, increasing bearing lifetime.



An additional advantage of this design is that the sound waves produced by the pre-filling cancel out much of the noise produced by the blower, resulting in an overall reduction of the noise level.

Low noise

The innovative design of the element, with its pre-filling canals, decreases noise levels substantially.

Inlet silencer

Pulsation noises are better contained within the rugged designed blower silencer.

Superior element design

Precisely balanced tri-lobe rotor with pre-filling canals, for lowest air pulsations, a long bearing lifetime, less vibrations and lower noise

Integral outlet silencer

Dampening of pressure pulsations are made via the purpose designed outlet silencer.

Global presence – Local service

Our Aftermarket product portfolio is designed to add maximum value for our customers by ensuring the optimum availability and reliability of their compressed air equipment with the lowest possible operating costs. We deliver this complete service guarantee through our extensive Aftermarket organization, maintaining our position as the leader in compressed air.

Full range of available Aftermarket products and activities

Activity	Product*
Genuine parts	Atlas Copco Service kits & oils
Extended warranties	AIR*Xtend*
Service contracts	ServicePlan
System audits	AIR*Scan™*
Remote monitoring	AIR*Connect™*
Energy saving	AIR*Optimizer™*
Product improvements	Upgrade programs

* more information is available from your local Atlas Copco customer centre

Technical data

ZL 100

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 100							
		C	D	E	F	G	H	I	J
300	**Q [m³/h]**							**91**	**104**
	T [°C]							48	48
	Pe [kW]							0.94	1.06
	Pm [kW]							1.5	1.5
	element rpm							4317	4856
	LmA [dB]							78/88	79/91
400	**Q [m³/h]**				**62**	**71**	**77**	**90**	**103**
	T [°C]				61	60	63	58	58
	Pe [kW]				0.92	1.03	1.1	1.25	1.41
	Pm [kW]				1.5	1.5	1.5	2.2	2.2
	element rpm				3183	3561	3830	4347	4890
	LmA [dB]				78/88	79/89	79/90	80/91	81/93
500	**Q [m³/h]**			**52**	**60**	**70**	**77**	**89**	**102**
	T [°C]			74	72	71	70	69	68
	Pe [kW]			1.03	1.14	1.3	1.4	1.56	1.76
	Pm [kW]			1.5	1.5	2.2	2.2	2.2	2.2
	element rpm			2860	3183	3586	3857	4347	4891
	LmA [dB]			78/88	78/89	80/90	80/91	81/92	82/94
600	**Q [m³/h]**	**34**	**41**	**52**	**60**	**69**	**76**	**88**	**102**
	T [°C]	95	91	86	84	82	81	79	78
	Pe [kW]	0.92	1.05	1.23	1.38	1.54	1.66	1.9	2.2
	Pm [kW]	1.5	1.5	1.5	2.2	2.2	2.2	3	3
	element rpm	2135	2427	2860	3206	3586	3857	4362	4908
	LmA [dB]	77/87	78/88	79/89	80/90	81/91	81/92	82/93	83/95
700	**Q [m³/h]**	**31**	**40**	**51**	**59**	**69**	**75**	**87**	**101**
	T [°C]	112	104	98	95	93	91	89	88
	Pe [kW]	1.01	1.22	1.45	1.6	1.8	1.92	2.2	2.5
	Pm [kW]	1.5	1.5	2.2	2.2	2.2	3	3	3
	element rpm	2021	2427	2880	3206	3586	3871	4362	4908
	LmA [dB]	77/87	78/88	80/90	81/91	82/92	82/93	83/94	83/95

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 300

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 300										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**83**	**99**	**122**	**133**	**153**	**180**	**206**	**238**	**253**	**268**	**304**
	T [°C]	55	53	52	51	50	50	49	49	49	49	48
	Pe [kW]	1.1	1.2	1.4	1.5	1.7	2	2.2	2.5	2.6	2.8	3.2
	Pm [kW]	1.5	1.5	2.2	2.2	2.2	3	3	4	4	4	4
	element rpm	2021	2296	2688	2880	3214	3673	4128	4668	4923	5187	5810
	LmA [dB]	69/83	70/88	71/89	71/89	72/91	73/92	73/92	74/93	75/94	76/96	81/102
400	**Q [m³/h]**	**79**	**95**	**118**	**129**	**149**	**176**	**203**	**233**	**250**	**266**	**302**
	T [°C]	70	67	64	64	62	60	60	59	59	59	58
	Pe [kW]	1.4	1.6	1.9	2	2.3	2.6	3	3.3	3.5	3.7	4.2
	Pm [kW]	2.2	2.2	3	3	3	4	4	4	5.5	5.5	5.5
	element rpm	2035	2312	2697	2890	3225	3692	4150	4668	4957	5223	5850
	LmA [dB]	70/83	71/89	71/90	72/91	73/92	73/92	74/93	75/94	76/96	77/97	82/103
500	**Q [m³/h]**	**74**	**91**	**114**	**126**	**146**	**172**	**201**	**232**	**247**	**262**	**298**
	T [°C]	85	74	77	75	73	71	70	69	69	69	68
	Pe [kW]	1.8	2	2.3	2.5	2.8	3.2	3.7	4.2	4.4	4.6	5.5
	Pm [kW]	2.2	3	3	4	4	4	5.5	5.5	5.5	5.5	7.5
	element rpm	2035	2312	2697	2905	3242	3692	4178	4700	4957	5223	5860
	LmA [dB]	71/83	71/90	72/91	73/92	74/93	74/93	75/94	76/96	76/97	77/98	82/103
600	**Q [m³/h]**	**70**	**88**	**105**	**123**	**144**	**171**	**198**	**229**	**244**	**260**	**296**
	T [°C]	103	96	92	88	85	83	81	79	79	79	78
	Pe [kW]	2.1	2.4	2.7	3	3.4	3.9	4.4	5	5.2	5.5	6.2
	Pm [kW]	3	3	4	4	5.5	5.5	5.5	7.5	7.5	7.5	7.5
	element rpm	2023	2312	2596	2905	3264	3718	4178	4708	4966	5232	5860
	LmA [dB]	72/89	72/91	73/92	73/94	74/94	74/95	75/95	76/96	77/98	78/98	83/104
700	**Q [m³/h]**	**67**	**85**	**102**	**121**	**141**	**168**	**195**	**226**	**241**	**257**	**295**
	T [°C]	121	111	106	101	98	94	92	90	89	90	88
	Pe [kW]	2.4	2.8	3	3.6	4	4.5	5.1	5.8	6.1	6.4	7.3
	Pm [kW]	3	4	4	5.5	5.5	5.5	7.5	7.5	7.5	7.5	11
	element rpm	2023	2324	2596	2925	3264	3718	4185	4708	4966	5232	5880
	LmA [dB]	72/90	73/92	73/93	74/94	74/95	75/96	76/97	77/98	78/98	78/99	84/106
800	**Q [m³/h]**		**83**	**100**	**119**	**139**	**166**	**193**	**225**	**240**	**256**	**293**
	T [°C]		128	120	114	110	106	103	101	100	100	98
	Pe [kW]		3.2	3.6	4	4.5	5.2	5.8	6.6	7	7.3	8.3
	Pm [kW]		4	5.5	5.5	5.5	7.5	7.5	11	11	11	11
	element rpm		2324	2614	2925	3264	3724	4185	4725	4983	5250	5880
	LmA [dB]		73/92	73/93	74/95	74/95	75/96	76/97	77/98	78/99	79/100	84/107
900	**Q [m³/h]**			**98**	**116**	**137**	**164**	**192**	**223**	**238**	**254**	**290**
	T [°C]			135	128	123	118	114	112	111	111	108
	Pe [kW]			4.1	4.7	5.1	5.8	6.6	7.4	7.8	8.2	9.3
	Pm [kW]			5.5	5.5	7.5	7.5	11	11	11	11	11
	element rpm			2614	2925	3270	3724	4200	4725	4983	5250	5880
	LmA [dB]			74/95	74/95	75/96	76/97	77/98	78/99	79/100	80/101	84/106
1000	**Q [m³/h]**					**135**	**162**	**190**	**221**	**236**	**252**	
	T [°C]					136	130	126	123	123	120	
	Pe [kW]					5.7	6.5	7.3	8.2	8.7	9.2	
	Pm [kW]					7.5	7.5	11	11	11	11	
	element rpm					3270	3725	4200	4725	4983	5250	
	LmA [dB]					76/97	76/98	78/99	79/100	80/101	82/104	

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 350

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 350										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**131**	**160**	**175**	**200**	**215**	**235**	**250**	**270**	**289**	**309**	**330**
	T [°C]	53	51	51	50	50	50	50	49	49	49	49
	Pe [kW]	1.6	1.8	2	2.2	2.4	2.6	2.7	2.9	3.1	3.3	3.5
	Pm [kW]	2.2	2.2	3	3	3	4	4	4	4	4	5.5
	element rpm	2312	2688	2890	3225	3429	3692	3891	4150	4409	4668	4957
	LmA [dB]	69/83	70/88	71/89	71/89	72/91	73/92	73/92	74/93	75/94	76/96	77/97
400	**Q [m³/h]**	**126**	**155**	**171**	**196**	**212**	**232**	**247**	**267**	**286**	**306**	**325**
	T [°C]	65	63	62	61	61	60	60	59	60	59	59
	Pe [kW]	2.1	2.4	2.6	2.9	3.1	3.4	3.6	3.8	4	4.3	4.6
	Pm [kW]	3	3	4	4	4	5.5	5.5	5.5	5.5	5.5	5.5
	element rpm	2312	2697	2905	3242	3447	3718	3917	4178	4440	4700	4957
	LmA [dB]	70/83	71/89	71/90	72/91	73/92	73/92	74/93	75/94	76/96	77/97	78/98
500	**Q [m³/h]**	**121**	**151**	**166**	**193**	**209**	**228**	**243**	**262**	**283**	**302**	**321**
	T [°C]	79	75	74	72	72	71	71	70	70	69	69
	Pe [kW]	2.6	3	3.3	3.7	3.9	4.2	4.4	4.7	5	5.4	5.7
	Pm [kW]	4	4	4	5.5	5.5	5.5	5.5	5.5	7.5	7.5	7.5
	element rpm	2324	2711	2905	3264	3470	3718	3917	4178	4447	4708	4957
	LmA [dB]	71/83	71/90	72/91	73/92	74/93	74/93	75/94	76/96	76/97	77/98	78/99
600	**Q [m³/h]**	**118**	**140**	**164**	**190**	**205**	**224**	**239**	**259**	**279**	**299**	**319**
	T [°C]	93	89	86	84	83	82	82	80	80	79	79
	Pe [kW]	3.1	3.5	3.9	4.4	4.7	5	5.3	5.7	6	6.4	6.8
	Pm [kW]	4	5.5	5.5	5.5	5.5	7.5	7.5	7.5	7.5	7.5	11
	element rpm	2324	2614	2925	3264	3470	3724	3924	4185	4447	4708	4983
	LmA [dB]	72/89	72/91	73/92	73/94	74/94	74/95	75/95	76/96	77/98	78/98	79/100
700	**Q [m³/h]**	**116**	**137**	**160**	**187**	**202**	**221**	**236**	**257**	**277**	**297**	**335**
	T [°C]	107	103	99	96	95	93	93	91	91	90	89
	Pe [kW]	3.63	4	4.6	5.1	5.4	5.9	6.2	6.6	7	7.5	8.5
	Pm [kW]	5.5	5.5	5.5	7.5	7.5	7.5	7.5	11	11	11	11
	element rpm	2340	2614	2925	3270	3476	3724	3924	4200	4462	4725	5250
	LmA [dB]	72/90	73/92	73/93	74/94	74/95	75/96	76/97	77/98	78/98	79/99	80/100
800	**Q [m³/h]**	**110**	**131**	**158**	**184**	**200**	**219**	**234**	**254**	**274**	**294**	**333**
	T [°C]	123	117	112	108	107	104	104	102	102	100	99
	Pe [kW]	4.1	5	5.2	5.9	6.2	6.7	7	7.6	8	8.5	9.5
	Pm [kW]	5.5	5.5	7.5	7.5	7.5	11	11	11	11	11	11
	element rpm	2301	2574	2930	3277	3476	3737	3937	4200	4462	4725	5250
	LmA [dB]	73/92	73/93	74/95	74/95	75/96	76/97	77/98	78/99	79/100	80/101	81/102
900	**Q [m³/h]**	**106**	**129**	**156**	**183**	**198**	**217**	**232**	**252**	**272**		
	T [°C]	139	131	124	120	119	116	116	113	113		
	Pe [kW]	4.6	5	5.9	6.6	7	7.5	7.9	8.5	9		
	Pm [kW]	5.5	7.5	7.5	11	11	11	11	11	11		
	element rpm	2285	2578	2930	3288	3488	3737	3937	4200	4462		
	LmA [dB]	73/93	74/95	74/95	75/96	76/97	77/98	78/99	79/100	80/102		
1000	**Q [m³/h]**			**154**	**181**	**196**	**215**	**230**	**250**	**270**		
	T [°C]			137	132	131	127	127	124	124		
	Pe [kW]			6.6	7.3	7.7	8.4	8.8	9.4	10		
	Pm [kW]			11	11	11	11	11	11	15		
	element rpm			2940	3288	3488	3737	3937	4200	4463		
	LmA [dB]			75/96	76/97	77/98	78/99	79/100	80/101	81/102		

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 400 - 500

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 400							ZL 500			
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**222**	**260**	**297**	**340**	**362**	**385**	**401**	**424**	**453**	**482**	**511**
	T [°C]	50	50	49	49	49	49	49	48	48	48	48
	Pe [kW]	2.5	2.8	3.2	3.6	3.8	4	4.1	4.4	4.7	5	5.3
	Pm [kW]	3	4	4	5.5	5.5	5.5	5.5	5.5	5.5	7.5	7.5
	element rpm	2550	2905	3247	3648	3854	4061	4210	4432	4698	4972	5239
	LmA [dB]	70/91	71/92	71/92	72/92	73/93	74/94	74/94	76/95	77/97	77/98	80/100
400	**Q [m³/h]**	**217**	**256**	**293**	**334**	**356**	**379**	**397**	**419**	**447**	**478**	**506**
	T [°C]	62	60	60	59	59	58	59	58	58	58	58
	Pe [kW]	3.3	3.8	4.2	4.8	5	5.3	5.5	5.8	6.2	6.6	7
	Pm [kW]	4	5.5	5.5	7.5	7.5	7.5	7.5	7.5	7.5	11	11
	element rpm	2563	2925	3269	3654	3860	4068	4217	4439	4706	4989	5256
	LmA [dB]	71/91	71/92	71/92	72/92	73/93	73/94	75/95	76/96	77/97	78/98	81/101
500	**Q [m³/h]**	**213**	**250**	**288**	**329**	**351**	**375**	**391**	**415**	**444**	**472**	**501**
	T [°C]	73	72	70	69	69	68	69	68	68	67	67
	Pe [kW]	4.1	4.7	5.3	5.9	6.2	6.6	6.9	7.2	7.7	8.2	8.7
	Pm [kW]	5.5	5.5	7.5	7.5	7.5	11	11	11	11	11	11
	element rpm	2580	2925	3275	3654	3860	4081	4232	4455	4722	4989	5256
	LmA [dB]	72/92	72/93	73/94	73/94	74/95	74/95	76/97	78/98	79/99	80/100	82/102
600	**Q [m³/h]**	**208**	**246**	**283**	**325**	**348**	**370**	**386**	**410**	**439**	**468**	**497**
	T [°C]	86	83	81	80	80	79	79	78	78	77	77
	Pe [kW]	4.9	5.6	6.3	7.1	7.5	7.9	8.2	8.6	9.2	9.8	10.3
	Pm [kW]	7.5	7.5	7.5	11	11	11	11	11	11	15	15
	element rpm	2585	2930	3275	3666	3874	4081	4232	4455	4722	4989	5256
	LmA [dB]	73/94	73/95	74/95	75/96	76/96	77/97	77/98	78/98	79/99	80/101	82/102
700	**Q [m³/h]**	**204**	**243**	**280**	**321**	**344**	**366**	**382**	**406**	**435**	**464**	**493**
	T [°C]	98	95	92	91	91	89	89	88	88	87	87
	Pe [kW]	5.7	6.5	7.3	8.2	8.7	9.2	9.5	10.1	10.7	11.3	12
	Pm [kW]	7.5	11	11	11	11	11	11	15	15	15	15
	element rpm	2585	2940	3286	3666	3874	4081	4232	4455	4722	4989	5256
	LmA [dB]	74/94	75/96	76/96	76/97	77/97	77/98	78/98	79/99	80/100	81/101	82/102
800	**Q [m³/h]**	**201**	**239**	**276**	**318**	**340**	**362**	**379**	**403**	**432**	**460**	**489**
	T [°C]	111	107	104	102	101	100	100	98	98	97	97
	Pe [kW]	6.6	7.5	8.4	9.4	9.9	10.5	10.9	11.5	12.2	12.9	13.6
	Pm [kW]	11	11	11	11	15	15	15	15	15	15	18.5
	element rpm	2594	2940	3286	3666	3874	4081	4232	4455	4722	4989	5256
	LmA [dB]	74/95	75/96	76/97	77/97	78/98	78/99	79/99	80/100	81/101	82/103	83/104
900	**Q [m³/h]**	**198**	**236**	**273**	**314**	**337**	**359**	**376**	**400**	**428**	**457**	**486**
	T [°C]	124	119	115	113	112	110	111	109	108	107	106
	Pe [kW]	7.4	8.4	9.4	10.5	11.1	11.7	12.2	12.9	13.7	14.5	15.3
	Pm [kW]	11	11	11	15	15	15	15	15	18.5	18.5	18.5
	element rpm	2594	2940	3286	3666	3874	4081	4232	4455	4722	4989	5256
	LmA [dB]	74/96	76/97	77/98	78/98	78/99	79/100	80/101	81/102	82/103	82/104	83/105
1000	**Q [m³/h]**	**195**	**233**	**270**	**312**	**334**	**356**	**373**	**397**	**426**		
	T [°C]	137	131	127	124	123	131	121	119	118		
	Pe [kW]	8.2	9.3	10.4	11.7	12.4	13	13.5	14.3	15.2		
	Pm [kW]	11	11	15	15	15	18.5	18.5	18.5	18.5		
	element rpm	2594	2940	3286	3666	3874	4081	4232	4455	4722		
	LmA [dB]	74/95	76/96	77/98	78/99	79/99	79/100	80/101	80/102	82/104		

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 650

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 650										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**264**	**312**	**362**	**413**	**469**	**499**	**530**	**551**	**584**	**625**	**664**
	T [°C]	51	50	50	49	49	49	49	49	49	49	49
	Pe [kW]	3	3.4	4	4.4	5	5.3	5.6	5.9	6.2	6.7	7.2
	Pm [kW]	4	5.5	5.5	5.5	7.5	7.5	7.5	7.5	7.5	11	11
	element rpm	2256	2581	2925	3269	3654	3861	4068	4217	4439	4722	4989
	LmA [dB]	71/92	71/92	72/92	73/93	74/94	74/94	76/95	77/97	77/98	80/100	81/102
400	**Q [m³/h]**	**258**	**304**	**355**	**406**	**463**	**493**	**524**	**546**	**578**	**617**	**656**
	T [°C]	63	61	60	60	59	59	59	59	59	59	59
	Pe [kW]	4	4.5	5.2	5.8	6.6	7	7.4	7.7	8.2	8.7	9.3
	Pm [kW]	5.5	5.5	7.5	7.5	11	11	11	11	11	11	11
	element rpm	2271	2581	2930	3275	3666	3874	4081	4232	4455	4722	4989
	LmA [dB]	71/92	71/92	72/92	73/93	73/94	75/95	76/96	77/97	78/98	81/101	82/102
500	**Q [m³/h]**	**252**	**297**	**348**	**400**	**456**	**487**	**517**	**539**	**572**	**611**	**650**
	T [°C]	75	73	71	70	69	69	69	69	68	68	68
	Pe [kW]	5	5.6	6.4	7.3	8.1	8.6	9.1	9.5	10.1	10.7	11.4
	Pm [kW]	7.5	7.5	7.5	11	11	11	11	11	15	15	15
	element rpm	2275	2585	2930	3286	3666	3874	4081	4232	4455	4722	4989
	LmA [dB]	72/93	73/94	73/94	74/95	74/95	76/97	78/98	79/99	80/100	82/102	83/103
600	**Q [m³/h]**	**245**	**293**	**344**	**395**	**450**	**481**	**511**	**533**	**566**	**605**	**644**
	T [°C]	87	84	82	81	79	79	79	79	78	78	78
	Pe [kW]	6	6.8	7.7	8.7	9.7	10.3	10.9	11.3	12	12.7	13.5
	Pm [kW]	7.5	11	11	11	15	15	15	15	15	15	18.5
	element rpm	2275	2594	2940	3286	3666	3874	4081	4232	4455	4722	4989
	LmA [dB]	73/95	74/95	75/96	76/96	77/97	77/98	78/98	79/99	80/101	82/101	83/103
700	**Q [m³/h]**	**241**	**287**	**339**	**390**	**445**	**476**	**506**	**529**	**561**	**600**	**640**
	T [°C]	100	96	93	91	90	90	89	89	88	88	87
	Pe [kW]	7	7.9	9	10.1	11.3	12	12.6	13.1	13.9	14.8	15.7
	Pm [kW]	11	11	11	15	15	15	15	18.5	18.5	18.5	18.5
	element rpm	2283	2594	2940	3286	3666	3874	4081	4232	4455	4722	4989
	LmA [dB]	75/96	76/96	76/97	77/97	77/98	78/98	79/99	80/100	81/101	82/102	84/104
800	**Q [m³/h]**	**237**	**283**	**334**	**385**	**441**	**472**	**502**	**524**	**557**	**597**	**637**
	T [°C]	113	108	105	102	101	101	99	99	98	97	97
	Pe [kW]	7.9	9	10.2	11.5	12.8	13.6	14.4	14.9	15.8	16.8	17.9
	Pm [kW]	11	11	15	15	15	18.5	18.5	18.5	18.5	22	22
	element rpm	2283	2594	2940	3286	3666	3874	4081	4232	4455	4730	4998
	LmA [dB]	75/96	76/97	77/97	78/98	78/99	79/99	80/100	81/101	82/103	83/104	84/105
900	**Q [m³/h]**	**233**	**279**	**330**	**381**	**437**	**468**	**499**	**522**	**554**	**594**	
	T [°C]	126	121	116	114	111	111	109	110	108	107	
	Pe [kW]	8.9	10.1	11.5	12.9	14.4	15.3	16.2	16.8	17.7	18.9	
	Pm [kW]	11	15	15	15	18.5	18.5	22	22	22	22	
	element rpm	2283	2594	2940	3286	3666	3874	4088	4239	4462	4730	
	LmA [dB]	76/97	77/98	78/98	78/99	79/100	80/101	81/102	82/103	82/104	84/105	

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 700 - 1000

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 700						ZL 1000				
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**482**	**558**	**598**	**635**	**673**	**719**	**777**	**829**	**880**	**953**	**1011**
	T [°C]	51	51	51	51	51	51	49	49	49	49	49
	Pe [kW]	5.4	6.2	6.7	7.1	7.6	8.1	8.3	8.9	9.4	10.3	11
	Pm [kW]	7.5	7.5	11	11	11	11	11	11	11	15	15
	element rpm	2585	2930	3118	3285	3459	3666	3920	4155	4390	4722	4989
	LmA [dB]	67/ 88	68/ 90	69/91	69/ 91	70/92	70/ 92	71/92	71/92	72/93	73/94	74/95
400	**Q [m³/h]**	**474**	**550**	**588**	**626**	**664**	**709**	**767**	**819**	**870**	**943**	**1002**
	T [°C]	62	61	61	61	61	61	59	58	58	58	58
	Pe [kW]	7.1	8.1	8.7	9.2	9.8	10.5	10.8	11.5	12.3	13.3	14.2
	Pm [kW]	11	11	11	11	15	15	15	15	15	18.5	18.5
	element rpm	2594	2940	3113	3286	3459	3666	3920	4155	4390	4722	4989
	LmA [dB]	67/ 89	68/ 91	70/92	70/ 93	71/93	71/ 93	72/94	72/94	73/95	74/95	75/96
500	**Q [m³/h]**	**465**	**541**	**579**	**617**	**655**	**701**	**759**	**810**	**862**	**937**	**995**
	T [°C]	73	72	72	71	71	71	68	68	68	68	68
	Pe [kW]	8.8	10	10.7	11.3	12	12.8	13.3	14.2	15.1	16.4	17.5
	Pm [kW]	11	15	15	15	15	15	18.5	18.5	18.5	22	22
	element rpm	2594	2940	3113	3286	3459	3666	3920	4155	4390	4730	4998
	LmA [dB]	68/ 91	69/ 93	70/94	71/ 94	71/95	72/ 95	73/95	73/95	74/96	75/96	75/97
600	**Q [m³/h]**	**458**	**534**	**572**	**610**	**648**	**694**	**752**	**805**	**857**	**931**	**990**
	T [°C]	84	83	82	82	81	81	78	78	77	77	77
	Pe [kW]	10.4	11.9	12.5	13.4	14.2	15.1	15.9	16.9	18	19.5	20.7
	Pm [kW]	15	15	15	18.5	18.5	18.5	18.5	22	22	30	30
	element rpm	2594	2940	3113	3286	3459	3666	3920	4162	4398	4738	5006
	LmA [dB]	68/ 92	69/ 93	71/95	71/ 95	72/95	73/ 95	74/96	74/96	75/96	76/96	76/97
700	**Q [m³/h]**	**452**	**528**	**566**	**604**	**643**	**689**	**747**	**800**	**852**	**925**	**984**
	T [°C]	95	94	93	92	92	91	88	87	87	87	87
	Pe [kW]	12.1	13.8	14.7	15.5	16.5	17.5	18.5	19.7	20.9	22.6	24
	Pm [kW]	15	18.5	18.5	18.5	22	22	22	30	30	30	30
	element rpm	2594	2940	3113	3286	3465	3673	3927	4169	4405	4738	5006
	LmA [dB]	68/ 92	69/ 93	71/95	71/ 95	72/96	73/ 96	73/96	74/96	75/97	76/97	76/98
800	**Q [m³/h]**	**446**	**522**	**562**	**600**	**638**	**685**	**743**	**795**	**847**	**920**	**981**
	T [°C]	107	105	104	103	102	102	98	97	97	97	97
	Pe [kW]	13.8	15.7	16.7	17.7	18.7	20	21.1	22.4	23.8	25.7	27.4
	Pm [kW]	18.5	18.5	22	22	22	30	30	30	30	30	37
	element rpm	2594	2940	3118	3291	3465	3679	3933	4169	4405	4738	5015
	LmA [dB]	69/93	70/94	71/95	72/96	72/96	73/96	74/96	74/97	75/97	77/98	78/98
900	**Q [m³/h]**	**441**	**519**	**557**	**596**	**635**	**680**	**728**	**774**	**844**	**896**	**976**
	T [°C]	119	116	115	114	113	112	109	108	108	107	107
	Pe [kW]	15.4	17.6	18.7	19.9	21	22.3	23.3	24.7	26.7	28.2	30.7
	Pm [kW]	18.5	22	22	30	30	30	30	30	37	37	37
	element rpm	2594	2945	3118	3297	3471	3679	3887	4095	4413	4649	5015
	LmA [dB]	69/93	70/94	71/95	72/96	73/96	74/97	74/97	75/97	76/98	77/99	78/100
1000	**Q [m³/h]**	**438**	**516**	**554**	**592**	**631**	**676**	**727**	**771**	**840**	**892**	**971**
	T [°C]	130	127	126	124	123	122	119	119	118	117	117
	Pe [kW]	17.1	19.6	20.8	22	23.2	24.7	25.9	27.4	29.6	31.3	34
	Pm [kW]	22	30	30	30	30	30	30	37	37	37	45
	element rpm	2599	2950	3124	3297	3471	3679	3887	4102	4413	4649	5015
	LmA [dB]	70/94	72/96	72/96	73/97	73/97	74/97	75/97	76/97	77/98	78/99	79/101

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 1200

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 1200										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**654**	**699**	**742**	**787**	**840**	**893**	**952**	**1007**	**1069**	**1138**	**1215**
	T [°C]	50	50	50	50	49	50	50	50	50	51	51
	Pe [kW]	7.1	8	8	8.5	9.1	9.7	10.4	11.3	12	12.6	13.5
	Pm [kW]	11	11	11	11	11	15	15	15	15	15	18.5
	element rpm	2634	2791	2940	3098	3282	3467	3675	3868	4081	4324	4594
	LmA [dB]	66/91	66/90	67/91	68/92	70/93	70/93	71/93	72/94	73/95	72/96	74/96
400	**Q [m³/h]**	**641**	**687**	**730**	**775**	**828**	**881**	**940**	**996**	**1057**	**1128**	**1206**
	T [°C]	61	61	61	60	60	60	60	60	60	60	60
	Pe [kW]	9.3	10	10.5	11.1	11.8	12.6	13.5	14.6	15.4	16.3	17.3
	Pm [kW]	11	15	15	15	15	15	18.5	18.5	18.5	22	22
	element rpm	2634	2791	2940	3098	3282	3467	3675	3868	4083	4331	4602
	LmA [dB]	68/92	68/92	68/93	69/94	70/94	71/94	71/95	72/96	73/96	72/96	74/97
500	**Q [m³/h]**	**631**	**676**	**719**	**765**	**818**	**871**	**932**	**988**	**1052**	**1121**	**1198**
	T [°C]	71	71	71	71	70	70	70	70	70	70	70
	Pe [kW]	11.5	12.3	13	13.7	14.6	15.6	16.6	17.9	19	20	21.2
	Pm [kW]	15	15	18.5	18.5	18.5	18.5	22	22	22	30	30
	element rpm	2634	2791	2940	3095	3282	3467	3681	3875	4097	4338	4609
	LmA [dB]	68/92	68/93	69/93	70/94	71/94	71/95	72/95	73/95	74/95	74/4/96	75/96
600	**Q [m³/h]**	**622**	**688**	**711**	**757**	**810**	**864**	**926**	**982**	**1043**	**1113**	**1190**
	T [°C]	83	81	81	81	80	80	80	79	79	79	79
	Pe [kW]	13.8	14.7	15.5	16.3	17.4	18.4	19.7	21.2	22.5	23.6	25
	Pm [kW]	18.5	18.5	18.5	22	22	22	30	30	30	30	30
	element rpm	2634	2791	2940	3103	3287	3473	3688	3882	4097	4338	4609
	LmA [dB]	68/93	69/93	69/93	70/94	71/95	72/95	72/96	74/96	75/97	75/97	76/97
700	**Q [m³/h]**	**616**	**661**	**705**	**752**	**805**	**858**	**919**	**974**	**1036**	**1108**	**1186**
	T [°C]	94	92	92	91	91	90	90	89	89	88	88
	Pe [kW]	16	17	18	19	20.2	21.5	22.8	24.1	26	27.4	29.3
	Pm [kW]	22	22	22	22	30	30	30	30	30	37	37
	element rpm	2639	2795	2945	3108	3292	3479	3688	3882	4097	4346	4617
	LmA [dB]	69/93	69/93	70/95	70/95	71/95	72/96	73/96	74/96	75/97	75/97	75/97
800	**Q [m³/h]**	**611**	**656**	**700**	**745**	**798**	**852**	**914**	**970**	**1032**	**1102**	**1180**
	T [°C]	105	103	103	102	101	100	99	99	98	98	98
	Pe [kW]	18.2	19.4	20.5	21.6	23	24.4	26	27.5	29.2	31.1	33.2
	Pm [kW]	22	30	30	30	30	30	37	37	37	37	45
	element rpm	2643	2800	2950	3108	3292	3479	3694	3888	4104	4346	4617
	LmA [dB]	70/94	69/93	70/94	71/95	72/96	73/96	73/97	74/98	75/98	75/98	75/98
900	**Q [m³/h]**	**605**	**651**	**694**	**740**	**793**	**848**	**909**	**964**	**1025**	**1095**	**1173**
	T [°C]	116	114	114	113	112	110	109	109	109	108	108
	Pe [kW]	20.4	21.8	23	24.2	26	27.4	29.2	30.8	32.6	34.7	37.1
	Pm [kW]	30	30	30	30	30	37	37	37	45	45	45
	element rpm	2643	2800	2950	3108	3292	3485	3694	3888	4104	4346	4617
	LmA [dB]	70/93	70/94	71/94	72/95	73/96	73/96	74/96	75/97	76/99	76/99	76/99
1000	**Q [m³/h]**	**601**	**646**	**689**	**736**	**790**	**844**	**903**	**959**	**1021**	**1090**	
	T [°C]	127	125	124	122	121	120	120	120	119	118	
	Pe [kW]	22.6	24.2	25.5	27	28.7	30.4	32.3	34.1	36.1	38.5	
	Pm [kW]	30	30	30	37	37	37	45	45	45	45	
	element rpm	2643	2800	2950	3113	3298	3485	3694	3888	4104	4346	
	LmA [dB]	72/96	72/96	72/96	73/96	74/97	74/97	75/98	76/99	77/100	77/100	

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 1400

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 1400										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**707**	**753**	**809**	**897**	**961**	**1022**	**1084**	**1157**	**1231**	**1304**	**1390**
	T [°C]	51	50	50	50	49	49	49	49	49	49	49
	Pe [kW]	7.7	8.2	8.7	9.6	10.2	10.7	11.3	12.1	12.8	13.6	14.4
	Pm [kW]	11	11	11	15	15	15	15	15	15	18.5	18.5
	element rpm	1629	1718	1817	1993	2117	2234	2363	2499	2634	2775	2940
	LmA [dB]	72/90	73/91	74/92	75/92	75/93	76/93	76/94	77/94	77/95	77/96	78/97
400	**Q [m³/h]**	**689**	**768**	**788**	**880**	**944**	**1005**	**1073**	**1143**	**1216**	**1293**	**1376**
	T [°C]	62	61	61	60	60	59	59	59	59	58	58
	Pe [kW]	10.2	10.9	11.5	12.7	13.4	14.2	14.9	15.9	16.9	17.9	19
	Pm [kW]	15	15	15	15	18.5	18.5	18.5	18.5	22	22	22
	element rpm	1629	1718	1817	1993	2117	2234	2363	2499	2639	2785	2945
	LmA [dB]	74/91	75/92	75/92	76/93	76/94	77/94	77/95	77/95	77/96	77/96	78/98
500	**Q [m³/h]**	**675**	**727**	**776**	**867**	**932**	**992**	**1061**	**1131**	**1205**	**1279**	**1365**
	T [°C]	73	72	71	71	70	70	69	69	68	68	68
	Pe [kW]	12.7	13.5	14.3	15.8	16.6	17.6	18.6	19.8	20.9	22.2	23.5
	Pm [kW]	15	18.5	18.5	18.5	22	22	22	30	30	30	30
	element rpm	1629	1728	1823	1997	2120	2235	2367	2502	2643	2785	2950
	LmA [dB]	75/92	75/92	76/93	76/94	77/94	77/95	77/95	77/96	77/96	78/98	78/99
600	**Q [m³/h]**	**666**	**715**	**764**	**857**	**922**	**982**	**1045**	**1119**	**1193**	**1270**	**1356**
	T [°C]	84	83	83	82	81	80	79	79	78	78	78
	Pe [kW]	15.3	16.2	17.1	18.8	19.9	21.1	22.2	23.7	25	26.5	28.1
	Pm [kW]	18.5	22	22	22	30	30	30	30	30	37	37
	element rpm	1635	1728	1823	2000	2124	2239	2360	2502	2643	2790	2955
	LmA [dB]	75/93	76/93	76/94	77/95	77/95	77/96	78/96	78/97	78/97	78/99	79/100
700	**Q [m³/h]**	**656**	**704**	**758**	**850**	**912**	**972**	**1035**	**1111**	**1186**	**1260**	**1344**
	T [°C]	96	95	94	92	91	91	90	89	89	88	88
	Pe [kW]	17.7	18.8	19.9	21.9	23.2	24.5	25.8	27.5	29.2	30.8	32.7
	Pm [kW]	22	22	30	30	30	30	30	37	37	37	45
	element rpm	1635	1728	1831	2006	2124	2242	2360	2506	2648	2790	2955
	LmA [dB]	76/93	76/94	77/95	77/95	77/96	78/96	78/97	78/97	78/99	79/100	80/101
800	**Q [m³/h]**	**647**	**696**	**750**	**841**	**905**	**967**	**1029**	**1103**	**1175**	**1250**	**1336**
	T [°C]	108	107	105	103	102	101	100	100	99	99	98
	Pe [kW]	20.2	21.5	22.7	25	26.5	28.1	29.6	31.4	33.2	35.1	37.3
	Pm [kW]	30	30	30	30	37	37	37	37	45	45	45
	element rpm	1635	1728	1831	2006	2128	2246	2364	2506	2648	2790	2955
	LmA [dB]	76/94	77/95	77/95	77/96	78/96	78/97	78/97	78/99	79/100	80/101	80/102
900	**Q [m³/h]**	**640**	**688**	**742**	**836**	**898**	**960**	**1020**	**1094**	**1168**	**1242**	
	T [°C]	120	118	117	114	113	112	112	111	110	109	
	Pe [kW]	22.8	24.1	25.5	28.1	29.8	31.5	33.2	35.3	37.3	39.4	
	Pm [kW]	30	30	30	37	37	37	45	45	45	45	
	element rpm	1635	1728	1831	2009	2128	2246	2364	2506	2648	2790	
	LmA [dB]	77/95	77/95	77/96	78/96	78/97	78/97	78/97	78/99	79/100	80/101	
1000	**Q [m³/h]**	**634**	**688**	**743**	**830**	**890**	**952**	**1014**	**1088**			
	T [°C]	132	130	128	125	125	123	122	121			
	Pe [kW]	25.3	26.9	28.6	31.2	33.1	35	36.8	39.1			
	Pm [kW]	30	37	37	37	45	45	45	45			
	element rpm	1635	1739	1844	2009	2128	2246	2364	2506			
	LmA [dB]	77/95	77/96	78/96	78/97	78/97	78/97	78/99	79/100			

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 1600 - 2000

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 1600											ZL 2000	
		A	B	C	D	E	F	G	H	I	J	K	L	M
300	**Q [m³/h]**	**997**	**1070**	**1143**	**1220**	**1292**	**1380**	**1467**	**1569**	**1662**	**1759**	**1883**	**1991**	**2128**
	T [°C]	50	50	50	49	49	49	49	49	49	49	49	49	49
	Pe [kW]	10.8	11.5	12.2	12.9	13.7	14.5	15.4	16.5	17.5	18.5	19.8	21.2	22.7
	Pm [kW]	15	15	15	15	18.5	18.5	18.5	22	22	22	30	30	30
	element rpm	1880	1985	2107	2231	2358	2489	2630	2795	2945	3103	3304	3479	3688
	LmA [dB]	74/91	75/92	75/92	76/93	76/94	77/94	77/95	77/95	77/96	77/96	78/98	78/99	79/100
400	**Q [m³/h]**	**981**	**1055**	**1132**	**1203**	**1285**	**1369**	**1460**	**1553**	**1646**	**1744**	**1865**	**1977**	**2107**
	T [°C]	61	60	60	60	59	59	59	59	59	58	58	58	58
	Pe [kW]	14.2	15.1	16.1	17	18	19.1	20.3	21.6	22.9	24.1	25.8	27.5	29.3
	Pm [kW]	18.5	18.5	22	22	22	30	30	30	30	30	30	37	37
	element rpm	1887	1992	2121	2235	2367	2502	2650	2800	2950	3108	3304	3485	3694
	LmA [dB]	74/92	75/93	76/93	76/94	77/95	77/95	77/96	78/96	78/97	78/97	78/99	79/100	80/101
500	**Q [m³/h]**	**975**	**1040**	**1118**	**1191**	**1265**	**1353**	**1445**	**1541**	**1634**	**1732**	**1854**	**1967**	**2095**
	T [°C]	71	70	70	70	69	69	69	68	68	68	68	68	68
	Pe [kW]	17.8	18.8	20	21.2	22.3	23.7	25.2	26.7	28.3	29.9	32	33.9	36.1
	Pm [kW]	22	22	30	30	30	30	30	37	37	37	37	45	45
	element rpm	1893	1998	2124	2242	2360	2502	2650	2805	2955	3113	3310	3493	3700
	LmA [dB]	74/92	75/93	76/93	76/94	77/95	77/95	77/96	78/96	78/97	78/97	78/99	79/100	80/101
600	**Q [m³/h]**	**963**	**1029**	**1105**	**1178**	**1254**	**1342**	**1435**	**1528**	**1624**	**1728**	**1832**	**1962**	**2076**
	T [°C]	82	81	81	80	79	79	79	78	78	77	77	77	77
	Pe [kW]	21.2	22.5	23.9	25.2	26.6	28.3	30.1	31.9	33.7	35.8	37.8	40.5	42.8
	Pm [kW]	30	30	30	30	37	37	37	37	45	45	45	55	55
	element rpm	1896	2002	2124	2242	2364	2506	2655	2805	2960	3128	3295	3505	3689
	LmA [dB]	75/93	75/94	76/94	76/95	77/96	77/96	77/97	78/97	78/98	79/98	79/100	80/101	81/102
700	**Q [m³/h]**	**952**	**1020**	**1096**	**1170**	**1243**	**1333**	**1426**	**1514**	**1613**	**1728**	**1840**	**1951**	
	T [°C]	93	92	91	90	90	90	88	88	88	87	87	87	
	Pe [kW]	24.7	26.1	27.8	29.3	30.9	32.9	35	36.9	39.1	41.8	44.3	46.9	
	Pm [kW]	30	37	37	37	37	45	45	45	45	55	55	55	
	element rpm	1896	2005	2128	2246	2364	2508	2659	2801	2960	3146	3326	3505	
	LmA [dB]	75/94	76/94	76/95	77/96	77/96	77/97	78/97	78/98	79/98	79/100	80/101	81/102	
800	**Q [m³/h]**	**945**	**1011**	**1087**	**1163**	**1236**	**1323**	**1417**	**1507**	**1610**	**1719**			
	T [°C]	104	103	101	101	100	99	98	98	97	97			
	Pe [kW]	28.2	29.8	31.6	33.5	35.3	37.5	39.8	42.1	44.7	47.5			
	Pm [kW]	37	37	37	45	45	45	45	55	55	55			
	element rpm	1900	2005	2128	2250	2368	2508	2659	2804	2970	3146			
	LmA [dB]	76/95	77/96	77/96	77/97	78/97	78/98	79/98	79/100	80/101	81/102			
900	**Q [m³/h]**	**937**	**1008**	**1082**	**1155**	**1228**	**1323**	**1405**						
	T [°C]	115	113	112	111	110	109	109						
	Pe [kW]	31.6	33.6	35.6	37.6	39.6	42.3	44.6						
	Pm [kW]	37	45	45	45	45	55	55						
	element rpm	1900	2013	2132	2250	2368	2520	2652						
	LmA [dB]	77/96	77/97	78/97	78/98	79/98	79/100	80/101						
1000	**Q [m³/h]**	**933**	**1001**	**1075**	**1158**	**1236**								
	T [°C]	126	124	123	122	121								
	Pe [kW]	35.1	37.2	39.5	42	44.4								
	Pm [kW]	45	45	45	55	55								
	element rpm	1903	2013	2132	2265	2391								
	LmA [dB]	78/97	78/98	79/98	79/100	80/101								

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 2500

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 2500						
		A	B	C	D	E	F	G
300	**Q [m³/h]**	**1427**	**1626**	**1923**	**2049**	**2183**	**2314**	**2473**
	T [°C]	50	50	50	50	50	50	50
	Pe [kW]	15.8	18	20.9	22.2	23.7	25.1	26.9
	Pm [kW]	18.5	22	30	30	30	30	37
	element rpm	1460	1635	1896	2006	2124	2239	2379
	LmA [dB]	73/95	74/96	75/97	76/98	76/98	77/99	77/99
400	**Q [m³/h]**	**1405**	**1599**	**1902**	**2022**	**2161**	**2300**	**2452**
	T [°C]	60	60	60	60	60	60	59
	Pe [kW]	20.8	23	27.3	28.9	30.9	32.8	35
	Pm [kW]	30	30	37	37	37	45	45
	element rpm	1465	1635	1900	2006	2128	2250	2383
	LmA [dB]	71/95	75/97	76/98	76/98	77/99	77/99	78/100
500	**Q [m³/h]**	**1383**	**1585**	**1883**	**2004**	**2143**	**2288**	**2439**
	T [°C]	71	71	70	70	69	69	69
	Pe [kW]	25.7	29	33.7	35.9	38.1	40.5	43.1
	Pm [kW]	30	37	45	45	45	55	55
	element rpm	1465	1659	1903	2009	21321	2258	2391
	LmA [dB]	74/96	75/97	76/98	77/99	76/99	78/100	79/101
600	**Q [m³/h]**	**1375**	**1567**	**1872**	**1993**	**2133**	**2269**	
	T [°C]	81	81	80	80	79	79	
	Pe [kW]	30.8	34.4	40.3	42.6	45.4	48.1	
	Pm [kW]	37	45	55	55	55	55	
	element rpm	1475	1659	1909	2015	2138	2257	
	LmA [dB]	74/96	76/98	77/99	77/99	78/100	78/100	
700	**Q [m³/h]**	**1360**	**1577**	**1856**				
	T [°C]	92	90	90				
	Pe [kW]	35.8	41	46.7				
	Pm [kW]	45	55	55				
	element rpm	1475	1665	1909				
	LmA [dB]	75/97	76/98	77/99				
800	**Q [m³/h]**	**1352**	**1565**					
	T [°C]	104	103					
	Pe [kW]	40.9	46.1					
	Pm [kW]	55	55					
	element rpm	1480	1665					
	LmA [dB]	75/97	77/99					
900	**Q [m³/h]**	**1341**						
	T [°C]	115						
	Pe [kW]	45.9						
	Pm [kW]	55						
	element rpm	1480						
	LmA [dB]	75/97						

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 3000

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 3000										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**								**2617**	**2779**	**2944**	**3133**
	T [°C]								50	50	50	51
	Pe [kW]								28.6	30.5	32.5	34.8
	Pm [kW]								37	37	45	45
	element rpm								2506	2648	2794	2960
	LmA [dB]								77/98	78/99	79/100	80/100
400	**Q [m³/h]**								**2596**	**2757**	**2930**	**3119**
	T [°C]								59	59	60	60
	Pe [kW]								37	39.4	42	44.9
	Pm [kW]								45	45	55	55
	element rpm								2510	2652	2804	2970
	LmA [dB]								78/99	78/100	79/101	81/102
500	**Q [m³/h]**								**2584**	**2747**	**2915**	**3104**
	T [°C]								69	69	69	69
	Pe [kW]								45.6	48.5	51.6	55
	Pm [kW]								55	55	75	75
	element rpm								2518	2661	2809	2975
	LmA [dB]								79/100	79/101	81/102	82/103
600	**Q [m³/h]**							**2409**	**2555**	**2722**	**2897**	**3086**
	T [°C]							79	79	77	78	76
	Pe [kW]							50.9	53.9	57.3	61.1	65
	Pm [kW]							75	75	75	75	75
	element rpm							2380	2508	2656	2809	2975
	LmA [dB]							78/100	79/101	80/101	81/102	82/104
700	**Q [m³/h]**				**1982**	**2103**	**2244**	**2394**	**2540**	**2707**	**2883**	
	T [°C]				90	89	89	88	88	87	88	
	Pe [kW]				49.5	52.3	55.5	59	62.4	66.4	70.6	
	Pm [kW]				75	75	75	75	75	75	90	
	element rpm				2019	2125	2249	2380	2508	2656	2809	
	LmA [dB]				76/98	77/99	77/99	78/100	79/101	80/102	81/102	
800	**Q [m³/h]**			**1820**	**1949**	**2080**	**2209**	**2359**	**2557**	**2681**		
	T [°C]			101	100	99	99	98	98	97		
	Pe [kW]			52.5	55.8	59.2	62.5	66.4	70.9	75		
	Pm [kW]			75	75	75	75	75	90	90		
	element rpm			1889	2002	2116	2229	2361	2508	2644		
	LmA [dB]			76/98	77/99	77/99	78/100	79/101	80/102	80/102		
900	**Q [m³/h]**		**1556**	**18010**	**1939**	**2069**	**2198**					
	T [°C]		113	111	110	109	109					
	Pe [kW]		51.8	58.9	62.6	66.3	70					
	Pm [kW]		75	75	75	75	90					
	element rpm		1667	1889	2002	2116	2229					
	LmA [dB]		76/98	77/99	78/100	78/100	79/101					
1000	**Q [m³/h]**	**1334**	**1570**	**1794**	**1930**							
	T [°C]	127	124	122	120							
	Pe [kW]	50.8	58.1	65.1	69.4							
	Pm [kW]	75	75	75	90							
	element rpm	1480	1687	1883	1989							
	LmA [dB]	76/98	77/99	78/100	78/100							

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 3400

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 3400										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**			**2423**	**2549**	**2699**	**2917**	**3061**	**3214**	**3473**	**3706**	**3958**
	T [°C]			57	58	58	60	61	62	62	62	62
	Pe [kW]			31.6	33.9	35.5	40.6	44.7	48.6	52	55.2	58.6
	Pm [kW]			37	37	45	45	55	55	75	75	75
	element rpm			1405	1475	1549	1659	1765	1842	1960	2100	2221
	LmA [dB]			76/94	76/94	77/95	78/95	79/96	79/97	80/97	81/99	82/103
400	**Q [m³/h]**			**2363**	**2490**	**2653**	**2815**	**3020**	**3157**	**3377**	**3622**	**3902**
	T [°C]			69	69	69	71	73	73	73	73	73
	Pe [kW]			40.6	43.4	45.7	51.5	56.6	60.8	64.4	68.5	73.2
	Pm [kW]			45	55	55	75	75	75	75	90	90
	element rpm			1405	1475	1554	1665	1771	1851	1960	2100	2221
	LmA [dB]			77/96	77/96	78/97	79/97	80/97	80/98	81/99	82/100	85/105
500	**Q [m³/h]**			**2308**	**2435**	**2619**	**2778**	**2950**	**3104**	**3325**	**3571**	
	T [°C]			81	81	80	81	85	86	86	86	
	Pe [kW]			49.7	53	56.2	62.8	68	73.1	77.5	82.3	
	Pm [kW]			55	75	75	75	75	90	90	90	
	element rpm			1410	1480	1554	1665	1771	1851	1960	2100	
	LmA [dB]			78/98	78/98	79/98	80/99	81/99	81/102	82/101	83/102	
600	**Q [m³/h]**			**2255**	**2383**	**2568**	**2727**	**2916**	**3083**			
	T [°C]			93	93	93	96	97	90			
	Pe [kW]			59	62.8	66.5	71.9	76.2	81			
	Pm [kW]			75	75	75	90	90	90			
	element rpm			1414	1480	1554	1671	1777	1851			
	LmA [dB]			79/99	79/99	80/100	81/100	82/101	82/102			
700	**Q [m³/h]**			**2204**	**2353**	**2518**	**2652**					
	T [°C]			106	106	105	102					
	Pe [kW]			68.5	73.3	77	80.7					
	Pm [kW]			75	90	90	90					
	element rpm			1414	1485	1559	1671					
	LmA [dB]			80/101	80/102	81/101	82/102					
800	**Q [m³/h]**			**2152**	**2302**							
	T [°C]			120	120							
	Pe [kW]			78.2	83.6							
	Pm [kW]			90	90							
	element rpm			1414	1485							
	LmA [dB]			80/101	80/101							
900	**Q [m³/h]**	**1747**	**1913**									
	T [°C]	138	138									
	Pe [kW]	79.5	83.5									
	Pm [kW]	90	90									
	element rpm	1244	1318									
	LmA [dB]	80/99	81/100									

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 4700

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 4700												
		A	B	C	D	E	F	G	H	I	J	K	L	M
300	**Q [m³/h]**	**2423**	**2549**	**2699**	**2917**	**3061**	**3214**	**3473**	**3706**	**3958**	**4299**	**4600**	**4918**	**5546**
	T [°C]	57	58	58	60	61	62	62	62	62	58	58	58	58
	Pe [kW]	31.6	33.9	35.5	40.6	44.7	48.6	52	55.2	58.6	56.4	62.5	66.7	76.1
	Pm [kW]	37	37	45	45	55	55	75	75	75	75	75	75	90
	element rpm	1405	1475	1549	1659	1765	1842	1960	2100	2221	2346	2514	2664	2975
	LmA [dB]	76/94	76/94	77/95	78/95	79/96	79/97	80/97	81/99	82/103	84/101	84/106	85/106	86/107
400	**Q [m³/h]**	**2363**	**2490**	**2653**	**2815**	**3020**	**3157**	**3377**	**3622**	**3902**	**4243**	**4559**	**4871**	**5502**
	T [°C]	69	69	69	71	73	73	73	73	73	68	68	68	68
	Pe [kW]	40.6	43.4	45.7	51.5	56.6	60.8	64.4	68.5	73.2	71.4	79	84.1	95.6
	Pm [kW]	45	55	55	75	75	75	75	90	90	90	90	110	110
	element rpm	1405	1475	1554	1665	1771	1851	1960	2100	2221	2346	2514	2669	2980
	LmA [dB]	77/96	77/96	78/97	79/97	80/97	80/98	81/99	82/100	85/105	86/106	87/106	88/107	88/108
500	**Q [m³/h]**	**2308**	**2435**	**2619**	**2778**	**2950**	**3104**	**3325**	**3571**	**3941**	**4207**	**4494**	**4822**	**5453**
	T [°C]	81	81	80	81	85	86	86	86	78	78	78	78	78
	Pe [kW]	49.7	53	56.2	62.8	68	73.1	77.5	82.3	86.8	87.9	95.1	101.4	115
	Pm [kW]	55	75	75	75	75	90	90	90	110	110	110	110	132
	element rpm	1410	1480	1554	1665	1771	1851	1960	2100	2224	2350	2518	2669	2980
	LmA [dB]	78/98	78/98	79/98	80/99	81/99	81/102	82/101	83/102	86/106	86/107	87/107	88/107	89/109
600	**Q [m³/h]**	**2255**	**2383**	**2568**	**2727**	**2916**	**3083**	**3375**	**3650**	**3901**	**4160**	**4448**	**4775**	
	T [°C]	93	93	93	96	97	90	90	90	89	89	89	89	
	Pe [kW]	59	62.8	66.5	71.9	76.2	81	84.6	91	96.6	102.1	111.5	118.9	
	Pm [kW]	75	75	75	90	90	90	110	110	110	132	132	132	
	element rpm	1414	1480	1554	1671	1777	1851	1987	2086	2224	2350	2518	2669	
	LmA [dB]	79/99	79/99	80/100	81/100	82/101	82/102	83/103	84/104	85/105	86/106	88/107	89/107	
700	**Q [m³/h]**	**2204**	**2353**	**2518**	**2652**	**2951**	**3130**	**3345**	**3600**	**3856**	**4115**			
	T [°C]	106	106	105	102	101	101	101	101	101	100			
	Pe [kW]	68.5	73.3	77	80.7	91.9	93.1	96.8	102.9	111.2	117.6			
	Pm [kW]	75	90	90	90	110	110	110	132	132	132			
	element rpm	1414	1485	1559	1671	1773	1863	1987	2086	2224	2350			
	LmA [dB]	80/101	80/102	81/101	82/102	82/103	83/103	85/106	85/106	86/106	87/107			
800	**Q [m³/h]**	**2152**	**2302**	**2502**	**2698**	**2915**	**3084**	**3308**	**3555**					
	T [°C]	120	120	116	114	113	113	113	112					
	Pe [kW]	78.2	83.6	86.8	91.7	97.2	103.5	111.2	116.7					
	Pm [kW]	90	90	110	110	110	132	132	132					
	element rpm	1414	1485	1569	1673	1773	1863	1986	2086					
	LmA [dB]	80/101	80/101	81/102	82/102	83/103	84/104	85/107	85/107					
900	**Q [m³/h]**	**2106**	**2274**	**2452**	**2664**	**2869**	**3044**							
	T [°C]	134	132	130	127	125	125							
	Pe [kW]	88.4	92.8	97.6	103.7	109.1	117.6							
	Pm [kW]	110	110	110	132	132	132							
	element rpm	1414	1485	1569	1673	1773	1863							
	LmA [dB]	81/101	81/102	81/102	82/103	85/105	86/108							
1000	**Q [m³/h]**				**2627**	**2785**								
	T [°C]				139	139								
	Pe [kW]				115.4	120.2								
	Pm [kW]				132	132								
	element rpm				1673	1773								
	LmA [dB]				84/103	87/106								

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 5000

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 5000													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
300	**Q [m³/h]**	**2922**	**3071**	**3317**	**3540**	**3774**	**4031**	**4353**	**4624**	**4917**	**5236**	**5477**	**5833**	**6234**	**6590**
	T [°C]	57	57	57	57	57	57	57	58	58	58	59	60	60	63
	Pe [kW]	37.7	40.4	43.2	46.4	49.2	53.6	57.5	63.2	67	71.1	77.2	85.2	91	103.5
	Pm [kW]	45	45	55	55	55	75	75	75	75	90	90	110	110	132
	element rpm	1106	1162	1240	1314	1388	1480	1584	1683	1778	1882	1973	2104	2235	2384
	LmA [dB]	76/94	76/94	77/95	77/95	79/96	80/97	80/97	80/98	81/99	81/100	84/100	84/100	84/100	84/100
400	**Q [m³/h]**	**2867**	**3029**	**3263**	**3491**	**3709**	**3983**	**4289**	**4561**	**4854**	**5174**	**5424**	**5771**	**6173**	
	T [°C]	68	68	68	68	68	68	68	69	69	69	0	71	71	
	Pe [kW]	48.6	52.1	55.4	59.4	62.6	68.2	72.9	79.8	84.4	89.6	96.8	106.1	113.3	
	Pm [kW]	55	75	75	75	75	75	90	90	110	110	110	132	132	
	element rpm	1110	1169	1244	1318	1388	1485	1584	1683	1778	1882	1976	2104	2235	
	LmA [dB]	77/95	78/96	78/97	78/97	79/97	80/97	81/98	81/99	82/100	83/100	84/104	84/104	84/104	
500	**Q [m³/h]**	**2818**	**2967**	**3203**	**3431**	**3662**	**3924**	**4231**	**4503**	**4797**	**5117**	**5367**			
	T [°C]	80	80	79	79	79	79	79	79	79	79	79			
	Pe [kW]	59.7	63.6	67.7	72.4	76.4	82.9	88.5	96.4	102	108.2	116.5			
	Pm [kW]	75	75	75	90	90	90	110	110	110	132	132			
	element rpm	1114	1169	1244	1318	1392	1485	1584	1683	1778	1882	1976			
	LmA [dB]	78/97	78/98	79/98	79/99	80/99	81/99	82/100	82/101	83/102	83/103	85/105			
600	**Q [m³/h]**	**2760**	**2909**	**3145**	**3375**	**3607**	**3869**	**4177**	**4449**	**4743**					
	T [°C]	92	92	91	91	90	90	90	90	90					
	Pe [kW]	70.8	75.3	80.1	85.4	90.2	97.6	104.2	113.2	119.7					
	Pm [kW]	90	90	90	110	110	110	132	132	132					
	element rpm	1114	1169	1244	1318	1392	1485	1584	1683	1778					
	LmA [dB]	79/99	79/99	80/100	80/100	81/100	82/101	83/102	83/103	84/104					
700	**Q [m³/h]**	**270**	**2853**	**3090**	**3321**	**3354**	**3816**	**4125**							
	T [°C]	105	105	104	103	102	102	101							
	Pe [kW]	82.1	87.2	92.6	98.7	104.1	112.5	120							
	Pm [kW]	90	110	110	110	132	132	132							
	element rpm	1114	1169	1244	1318	1392	1485	1584							
	LmA [dB]	80/100	80/101	81/101	81/102	82/102	83/103	84/104							
800	**Q [m³/h]**	**2646**	**2797**	**3036**	**3268**	**3501**									
	T [°C]	118	118	116	115	114									
	Pe [kW]	93.7	99.4	105.4	112.1	118.2									
	Pm [kW]	110	110	132	132	132									
	element rpm	1114	1169	1244	1318	1392									
	LmA [dB]	80/101	80/101	81/102	82/102	82/103									
900	**Q [m³/h]**	**2589**	**2741**	**2981**											
	T [°C]	132	132	130											
	Pe [kW]	105.6	111.8	118.5											
	Pm [kW]	132	132	132											
	element rpm	1114	1169	1244											
	LmA [dB]	80/101	80/101	81/102											

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 5300

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 5300										
		A	B	C	D	E	F	G	H	I	J	K
300	**Q [m³/h]**	**3540**	**3774**	**4031**	**4353**	**4624**	**4917**	**5236**	**5477**	**5833**	**6234**	**6590**
	T [°C]	57	57	57	57	58	58	58	59	60	60	63
	Pe [kW]	46.4	49.2	53.6	57.5	63.2	67	71.1	77.2	85.2	91	103.5
	Pm [kW]	55	55	75	75	75	75	90	90	110	110	132
	element rpm	1314	1388	1480	1584	1683	1778	1882	1973	2104	2235	2384
	LmA [dB]	77/95	79/96	80/97	80/97	80/98	81/99	81/100	84/100	84/100	84/100	84/100
400	**Q [m³/h]**	**3491**	**3709**	**3983**	**4289**	**4561**	**4854**	**5174**	**5424**	**5771**	**6173**	**6529**
	T [°C]	68	68	68	68	69	69	69	0	71	71	74
	Pe [kW]	59.4	62.6	68.2	72.9	79.8	84.4	89.6	96.8	106.1	113.3	127.6
	Pm [kW]	75	75	75	90	90	110	110	110	132	132	160
	element rpm	1318	1388	1485	1584	1683	1778	1882	1976	2104	2235	2341
	LmA [dB]	78/97	79/97	80/97	81/98	81/99	82/100	83/100	84/104	84/104	84/104	84/104
500	**Q [m³/h]**	**3431**	**3662**	**3924**	**4231**	**4503**	**4797**	**5117**	**5367**	**5715**	**6204**	**6531**
	T [°C]	79	79	79	79	79	79	79	79	82	78	78
	Pe [kW]	72.4	76.4	82.9	88.5	96.4	102	108.2	116.5	127.2	129.6	136.2
	Pm [kW]	90	90	90	110	110	110	132	132	160	160	160
	element rpm	1318	1392	1485	1584	1683	1778	1882	1976	2105	2203	2341
	LmA [dB]	79/99	80/99	81/99	82/100	82/101	83/102	83/103	85/105	85/105	85/105	85/105
600	**Q [m³/h]**	**3375**	**3607**	**3869**	**4177**	**4449**	**4743**	**5140**	**5495**	**5829**	**6054**	**6479**
	T [°C]	91	90	90	90	90	90	88	88	88	88	88
	Pe [kW]	85.4	90.2	97.6	104.2	113.2	119.7	121.6	129.3	137.7	149.5	159.4
	Pm [kW]	110	110	110	132	132	132	160	160	160	200	200
	element rpm	1318	1392	1485	1584	1683	1778	1882	1988	2105	2203	2341
	LmA [dB]	80/100	81/100	82/101	83/102	83/103	84/104	84/105	87/107	87/107	87/107	87/107
700	**Q [m³/h]**	**3321**	**3554**	**3816**	**4125**	**4501**	**4725**	**5090**	**5446**	**5780**	**6005**	**6431**
	T [°C]	103	102	102	101	98	98	98	98	98	98	98
	Pe [kW]	98.7	104.1	112.5	120	123.5	131.3	140.2	148.9	158.4	171.5	182.8
	Pm [kW]	110	132	132	132	160	160	160	200	200	200	200
	element rpm	1318	1392	1485	1584	1672	1765	1882	1988	2105	2203	2341
	LmA [dB]	81/102	82/102	83/103	84/104	84/105	85/106	85/107	86/107	86/107	86/107	86/107
800	**Q [m³/h]**	**3268**	**3501**	**3830**	**4124**	**4455**	**4676**	**5042**	**5398**	**5733**	**5958**	**6384**
	T [°C]	115	114	110	109	108	108	108	107	107	110	110
	Pe [kW]	112.1	118.2	122.9	131.4	140.2	148.8	158.8	168.7	179.2	193.6	206.3
	Pm [kW]	132	132	160	160	160	160	200	200	200	250	250
	element rpm	1318	1392	1485	1579	1672	1765	1882	1988	2105	2203	2341
	LmA [dB]	82/102	82/103	83/103	84/104	84/105	85/106	85/107	87/108	87/108	87/108	87/108
900	**Q [m³/h]**	**3215**	**3488**	**3783**	**4075**	**4407**	**4628**	**4995**	**5352**	**5687**		
	T [°C]	128	123	121	121	119	119	119	118	118		
	Pe [kW]	125.8	129.6	138	147.3	157	166.6	177.7	188.6	200.1		
	Pm [kW]	160	160	160	160	200	200	200	250	250		
	element rpm	1318	1393	1486	1579	1672	1765	1882	1988	2105		
	LmA [dB]	82/102	83/103	84/104	84/104	85/105	85/106	85/107	88/110	88/110		
1000	**Q [m³/h]**	**3200**	**3437**	**3734**	**4027**	**4360**	**4581**	**4949**	**5307**			
	T [°C]	138	136	134	133	131	131	130	129			
	Pe [kW]	136.7	144	153.2	163.4	174	184.5	196.7	208.7			
	Pm [kW]	160	160	200	200	200	200	250	250			
	element rpm	1319	1393	1486	1579	1672	1765	1882	1988			
	LmA [dB]	82/103	83/103	84/104	84/104	85/105	85/106	85/106	88/110			

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 8200

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 8200									
		A	B	C	D	E	F	G	H	I	J
300	**Q [m³/h]**	**4519**	**4870**	**5221**	**5496**	**5932**	**6187**	**6595**	**7012**	**7386**	**7805**
	T [°C]	57	57	56	56	56	58	58	58	61	65
	Pe [kW]	60.2	64.3	68.4	71.6	76.7	86.4	91.6	97	110	127.9
	Pm [kW]	75	75	75	90	90	110	110	110	132	160
	element rpm	1114	1188	1262	1320	1411	1488	1576	1663	1767	1882
	LmA [dB]	87/95	87/95	87/96	87/97	88/98	89/98	89/99	89/99	89/100	89/101
400	**Q [m³/h]**	**4426**	**4778**	**5129**	**5405**	**5851**	**6097**	**6506**	**6924**	**7299**	**7720**
	T [°C]	68	68	67	67	67	68	69	69	71	76
	Pe [kW]	77.1	82.2	87.4	91.5	98.1	109	115.6	122.4	137.3	157.4
	Pm [kW]	90	90	110	110	110	132	132	132	160	200
	element rpm	1114	1188	1268	1323	1414	1488	1576	1663	1765	1882
	LmA [dB]	87/96	87/97	87/98	88/98	88/98	89/99	89/100	90/100	90/101	90/102
500	**Q [m³/h]**	**4356**	**4702**	**5064**	**5336**	**5768**	**6016**	**6425**	**6843**	**7219**	**7641**
	T [°C]	80	79	78	78	78	80	80	80	82	87
	Pe [kW]	94.5	100.5	107	111.8	119.6	131.9	139.7	147.8	164.7	187.1
	Pm [kW]	110	110	132	132	132	160	160	160	200	250
	element rpm	1118	1190	1266	1323	1414	1486	1573	1661	1765	1882
	LmA [dB]	88/98	88/99	88/99	89/100	89/100	90/101	90/101	90/102	90/103	90/104
600	**Q [m³/h]**	**4278**	**4622**	**4986**	**5258**	**5682**	**5939**	**6349**	**6768**	**7144**	**7567**
	T [°C]	92	91	90	89	89	90	90	91	94	98
	Pe [kW]	111.8	118.9	126.4	132.1	141	154.9	164.1	173.5	192.3	217
	Pm [kW]	132	132	160	160	160	200	200	200	250	250
	element rpm	1118	1190	1263	1321	1412	1486	1573	1661	1765	1882
	LmA [dB]	88/100	88/100	88/101	89/101	89/102	90/103	91/103	91/104	91/105	91/106
700	**Q [m³/h]**	**4199**	**4536**	**4891**	**5169**	**5609**	**5866**	**6276**	**6696**	**7072**	**7495**
	T [°C]	104	103	102	101	100	103	102	101	105	110
	Pe [kW]	129.5	137.3	145.7	152.3	162.8	178.2	188.6	199.4	202.2	247.1
	Pm [kW]	160	160	160	200	200	200	250	250	250	315
	element rpm	1115	1189	1263	1321	1412	1486	1573	1661	1765	1882
	LmA [dB]	89/101	89/102	89/13	90/103	90/104	91/104	92/105	92/105	92/106	92/108
800	**Q [m³/h]**	**4122**	**4460**	**4817**	**5096**	**5537**	**5794**	**6206**	**6627**	**7003**	
	T [°C]	117	115	114	113	113	114	114	114	116	
	Pe [kW]	147.4	156.2	165.6	173	184.8	201.7	213.4	225.5	248.3	
	Pm [kW]	160	200	200	200	200	250	250	250	315	
	element rpm	1115	1189	1263	1321	1412	1486	1573	1661	1765	
	LmA [dB]	90/102	90/102	90/103	91/103	91/104	92/104	92/105	92/106	92/106	

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Technical data

ZL 10000

Q [m³/h]: capacity of blower aggregate
T [°C]: temperature on the discharge blower flange
Pe [kW]: blower input
Pm [kW]: motor load
n [rpm]: blower speed
LmA [dB]: level of acoustic pressure with and without noise enclosure

Δp mbar		ZL 10000							
		A	B	C	D	E	F	G	H
300	**Q [m³/h]**	**6369**	**7154**	**7607**	**7929**	**8411**	**8896**	**9278**	**9771**
	T [°C]	54	55	58	60	61	62	64	67
	Pe [kW]	77.8	91.4	104.8	117.7	127.8	138.3	151.2	172.7
	Pm [kW]	90	110	132	132	160	160	200	200
	element rpm	1485	1670	1789	1882	1988	2105	2203	2341
	LmA [dB]	89/98	90/99	89/100	89/101	88/103	89/103	89/103	89/103
400	**Q [m³/h]**	**6278**	**7065**	**7519**	**7842**	**8326**	**8811**	**9194**	**9688**
	T [°C]	64	65	68	71	72	73	75	78
	Pe [kW]	99.8	116.5	132.1	146.8	158.5	171.1	185.8	210
	Pm [kW]	110	132	160	160	200	200	200	250
	element rpm	1488	1670	1789	1882	1988	2105	2203	2341
	LmA [dB]	87/99	88/100	91/101	90/102	89/106	89/106	91/106	91/106
500	**Q [m³/h]**	**6197**	**6984**	**7440**	**7763**	**8248**	**8733**	**9117**	**9611**
	T [°C]	74	76	79	82	83	83	85	89
	Pe [kW]	122	141.7	159.5	176	189.4	204	220.5	247.4
	Pm [kW]	160	160	200	200	250	250	250	315
	element rpm	1486	1670	1789	1882	1988	2105	2203	2341
	LmA [dB]	88/101	89/102	91/103	91/104	88/106	88/106	91/106	91/106
600	**Q [m³/h]**	**6122**	**6909**	**7365**	**7689**	**8175**	**8660**	**9045**	**9539**
	T [°C]	85	86	90	93	93	94	96	100
	Pe [kW]	144.4	167.1	187.1	205.4	220.5	237.1	255.4	285.1
	Pm [kW]	160	200	250	250	250	315	315	315
	element rpm	1486	1670	1789	1882	1988	2105	2203	2341
	LmA [dB]	90/103	91/104	91/105	91/106	89/107	89/107	92/107	92/107
700	**Q [m³/h]**	**6050**	**6838**	**7295**	**7618**	**8105**			
	T [°C]	96	97	101	104	105			
	Pe [kW]	166.9	192.7	214.9	235.1	251.8			
	Pm [kW]	200	250	250	315	315			
	element rpm	1486	1670	1789	1882	1988			
	LmA [dB]	91/105	92/106	91/106	91/108	89/110			
800	**Q [m³/h]**	**5981**	**6770**	**7226**					
	T [°C]	107	108	112					
	Pe [kW]	189.6	218.5	242.8					
	Pm [kW]	250	250	315					
	element rpm	1486	1670	1789					
	LmA [dB]	92/105	93/106	91/107					

Reference conditions: Inlet pressure: 1.013 bar(a) - Inlet temperature: 20°C dry air

Compact dimensions
Easy installation

Standard unit

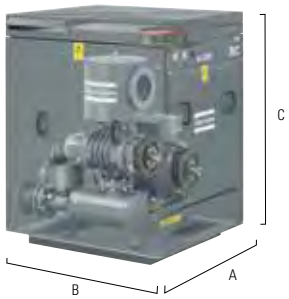
Model	A		B		C		Weight		Outlet connection		
	mm	in	mm	in	mm	in	kg	lb			
ZL 100	798	31.4	635	25.0	645	24.4	77	170	DN65.	PN10 acc.	DIN2501
ZL 300	811	31.9	648	25.5	845	33.3	91	201	DN65.	PN10 acc.	DIN2501
ZL 350	829	32.6	648	25.5	845	33.3	95	209	DN65.	PN10 acc.	DIN2501
ZL 400	823	32.4	648	25.5	961	37.8	120	264	DN65.	PN10 acc.	DIN2501
ZL 500	869	34.2	829	32.6	1065	41.9	150	331	DN80.	PN10 acc.	DIN2576
ZL 650	895	35.2	829	32.6	1065	41.9	160	353	DN80.	PN10 acc.	DIN2576
ZL 700	903	35.5	844	33.2	1186	46.7	200	441	DN80.	PN10 acc.	DIN2576
ZL 1000	1025	40.3	869	34.2	1240	48.8	230	507	DN100.	PN10 acc.	DIN2576
ZL 1200	1049	41.3	869	34.2	1240	48.8	245	540	DN100.	PN10 acc.	DIN2576
ZL 1400	1085	42.7	883	34.8	1247	49.1	325	716	DN100.	PN10 acc.	DIN2576
ZL 1600	1227	50.0	1022	40.2	1336	52.6	425	937	DN150.	PN10 acc.	DIN2576
ZL 2000	1277	50.2	1056	41.6	1336	52.6	750	1653	DN200.	PN10 acc.	DIN2576
ZL 2500	1324	52.1	1112	43.7	1518	59.7	750	1653	DN200.	PN10 acc.	DIN2576
ZL 3000	1643	64.7	1320	52.0	1687	66.4	750	1653	DN200.	PN10 acc.	DIN2576
ZL 3400	1717	67.6	1333	52.5	1816	71.5	975	2149	DN200.	PN10 acc.	DIN2576
ZL 4700	1825	71.8	1540	60.6	1932	76.1	1100	2425	DN250.	PN10 acc.	DIN2576
ZL 5000	1866	73.5	1597	62.9	2082	82.0	1375	3031	DN250.	PN10 acc.	DIN2576
ZL 5300	2036	80.1	1597	62.9	2082	82.0	1490	3285	DN300.	PN10 acc.	DIN2576
ZL 8200	2126	83.7	1597	62.9	2082	82.0	1710	3770	DN300.	PN10 acc.	DIN2576
ZL 10000	2126	83.7	1597	62.9	2082	82.0	1710	3770	DN300.	PN10 acc.	DIN2576

Excluding motor

Sound enclosure

Model	A		B		C		Weight		Outlet connection		
	mm	in	mm	in	mm	in	kg	lb			
ZL 100	892	35.1	940	37.0	1106	43.5	197	434	DN65.	PN10 acc.	DIN2501
ZL 300	892	35.1	940	37.0	1106	43.5	211	465	DN65.	PN10 acc.	DIN2501
ZL 350	892	35.1	940	37.0	1106	43.5	120	264	DN65.	PN10 acc.	DIN2501
ZL 400	892	35.1	940	37.0	1106	43.5	240	529	DN65.	PN10 acc.	DIN2501
ZL 500	1022	40.2	1157	45.5	1291	50.8	310	683	DN80.	PN10 acc.	DIN2576
ZL 650	1022	40.2	1157	45.5	1291	50.8	320	705	DN80.	PN10 acc.	DIN2576
ZL 700	1102	43.4	1247	49.1	1433	56.4	360	794	DN80.	PN10 acc.	DIN2576
ZL 1000	1102	43.4	1247	49.1	1433	56.4	416	917	DN100.	PN10 acc.	DIN2576
ZL 1200	1102	43.4	1247	49.1	1433	56.4	431	950	DN100.	PN10 acc.	DIN2576
ZL 1400	1102	43.4	1247	49.1	1433	56.4	511	1126	DN100.	PN10 acc.	DIN2576
ZL 1600	1302	51.2	1406	55.3	1636	64.4	645	1422	DN150.	PN10 acc.	DIN2576
ZL 2000	1302	51.2	1406	55.3	1636	64.4	1240	2734	DN200.	PN10 acc.	DIN2576
ZL 2500	1302	51.2	1406	55.3	1636	64.4	1240	2734	DN200.	PN10 acc.	DIN2576
ZL 3000	1890	74.4	1752	69.0	1838	72.4	1240	2734	DN200.	PN10 acc.	DIN2576
ZL 3400	2090	82.3	1900	74.8	2158	85.0	1515	3340	DN200.	PN10 acc.	DIN2576
ZL 4700	2090	82.3	1955	77.0	2158	85.0	1640	3615	DN250.	PN10 acc.	DIN2576
ZL 5000	2090	82.3	1955	77.0	2158	85.0	1915	4222	DN250.	PN10 acc.	DIN2576
ZL 5300	2090	82.3	2295	90.3	2158	85.0	2070	4563	DN300.	PN10 acc.	DIN2576
ZL 8200	2090	82.3	2295	90.3	2158	85.0	2290	5048	DN300.	PN10 acc.	DIN2576
ZL 10000	2090	82.3	2295	90.3	2158	85.0	2490	5490	DN300.	PN10 acc.	DIN2576

Excluding motor



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