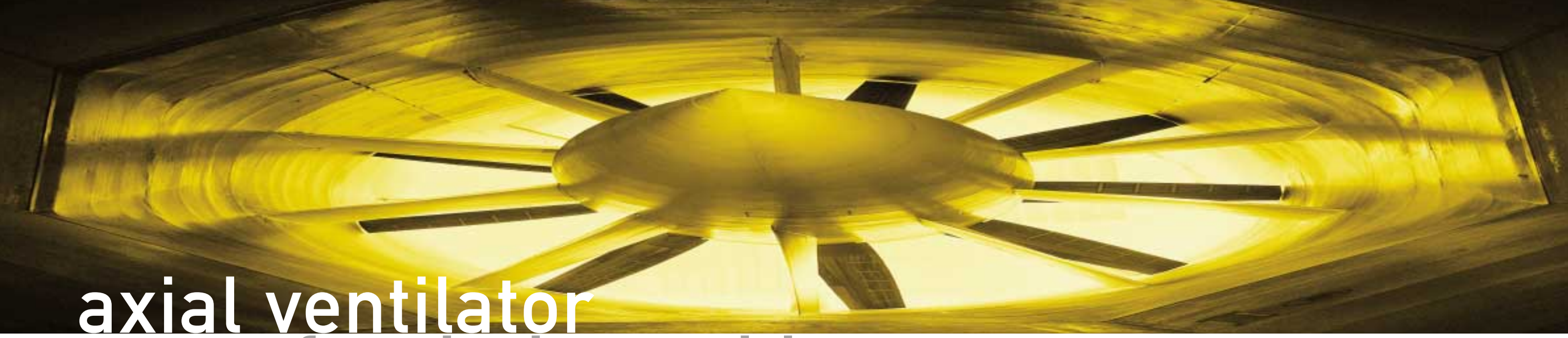

axial ventilator
for drying cabins

Typ LAT axial ventilator

The **LAT type axial ventilator** was specially designed for high-performance drying and due to the choice of materials is ideally suited to the demanding conditions prevailing in drying situations.

In particular, the LAT can be used for the control of the airflow in wood drying chambers at temperatures of up to 135°C, 100% humidity and highly acidic media.

The **housing** consists of a longitudinally welded tube, which is close fitted with compact nozzles on both sides. The housing is made of acid-resistant AlMg3. The stable, 3-component (5 in the case of large types) motor console is built of special 1.4301 steel and is screwed into the tube for maximum rigidity. Only V2A connecting elements are employed.

The **impeller** was specifically designed for high air volumes at relatively low-pressure. The special profile and warp of the blades guarantees 100% reverse running at a high level of efficiency. A wide performance range can be covered, as a result of the infinitely variable adjustment of the blade angle. All the parts contained in the impeller are cast in corrosion-resistant AlSi12(Cu), or made of special steel sheet. The kinetic energy grade is Q6.3 (ISO) in accordance with VDI 2060.

The ventilator is fitted with a high-quality **motor**, which incorporates all our experience as a long-established manufacturer of electric motors for extremely demanding applications. Standard features include a stainless steel shaft, grey cast iron end shield, internal corrosion protection, hot bearing grease lubrication and regreasing facility at the bigger sizes, an H heat class insulation system and a metal terminal box. All fastenings, including those in the motor are made of V2A and the relating plate is in stainless steel sheet. For the safe operation of frequency inverters, which are standard in wood drying chambers, we supply suitable cable screwing. The motors are coated with high-temperature resistant plastic paint.

ATB axial ventilators are generally available with drive output voltages of 400/230 V to 4.0 kW, but can be supplied in a 690/400V version. As we produce the motors ourselves, we can provide an extremely flexible response to special customer requests concerning the drives (e.g. special windings).

The **performance range** of our axial ventilators extends from 0.37 kW to 22 kW at a maximum ambient temperature of 85°C and from 0.37 kW to 15 kW at a maximum ambient temperature of 135°C.

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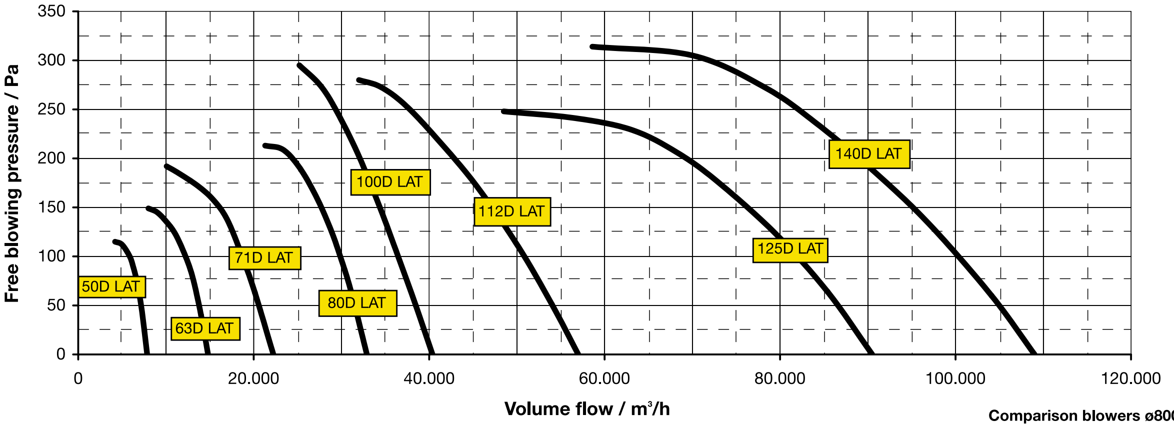
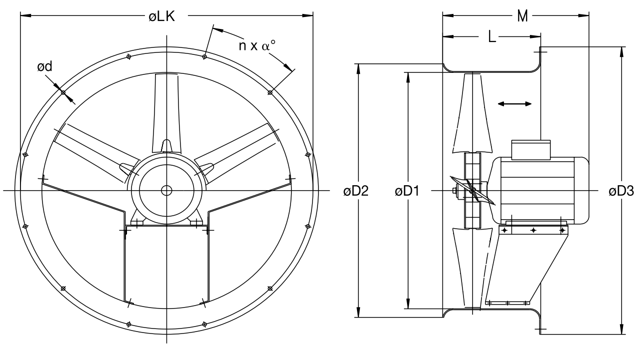
ATB Technik in Bewegung

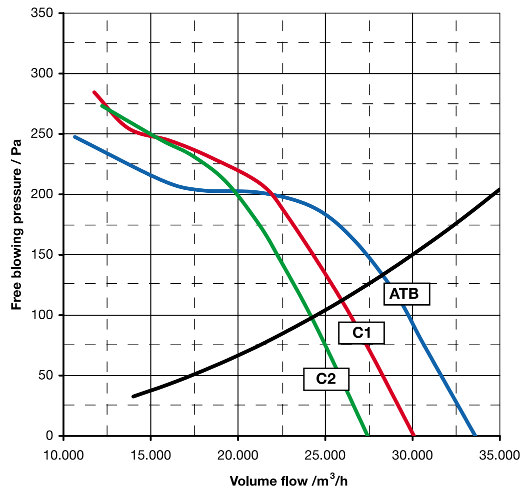
LAT type axial ventilator for drying cabins

Lines and dimensions





Comparison blowers ø800, 3-kW, 1430 min⁻¹
ATB, Competitor 1, Competitor 2



Performance data and dimensions

Type	P_{MOT} in kW	max. V in m³/h	V_B in m³/h	$dp_{B\text{-freibl.}}$ in Pa	$dp_{B\text{-ges.}}$ in Pa	n in min⁻¹	Lp* in dB(A)	D1	LK	D2	D3	L	M	n x α°	d	kg
50C LAT	0,37	6.960	4.950	100	129	1500	55,0						250			20
50D LAT	0,55	7.860	5.850	100	138	1500	56,5	502	620	550	650	280	285	8 x 45	12	23
50E LAT	0,75	8.250	6.600	100	152	1500	57,6						285			24
56C LAT	0,55	9.320	7.300	100	141	1500	57,8						290			25
56D LAT	0,75	10.900	8.650	100	157	1500	59,5	562	700	620	730	280	290	8 x 45	12	26
56E LAT	1,1	11.400	9.600	100	170	1500	60,6						318			30
63C LAT	0,75	12.600	9.900	100	147	1500	59,8						290			28
63D LAT	1,1	14.800	12.200	100	171	1500	60,0	632	770	690	800	280	338	8 x 45	12	32
63E LAT	1,5	15.050	12.900	100	180	1500	62,8						360			34
71C LAT	1,1	18.630	13.000	150	200	1500	64,9						343			40
71D LAT	1,5	22.240	16.100	150	226	1500	66,8	713	870	780	900	315	365	8 x 45	12	43
71E LAT	2,2	26.500	21.500	150	286	1500	69,7						397			48
80C LAT	2,2	28.700	22.200	150	241	1500	68,9						397			52
80D LAT	3	32.900	27.500	150	290	1500	71,7	804	960	870	990	315	425	16 x 22,5	14	58
80E LAT	4	37.570	30.200	150	319	1500	72,8						458			65
90C LAT	3	28.300	20.000	200	246	1500	70,6						430			67
90D LAT	4	32.000	22.800	200	260	1500	71,6	904	1060	970	1100	355	463	12 x 30	14	74
90E LAT	5,5	35.500	26.100	200	279	1500	72,8						524			87
100C LAT	4	35.890	28.300	200	262	1500	73,1						463			80
100D LAT	5,5	40.380	32.000	200	279	1500	74,2	1004	1160	1070	1200	355	524	12 x 30	14	93
100E LAT	7,5	44.780	36.000	200	300	1500	75,4						546			113
112C LAT	11	67.500	52.000	200	325	1500	78,2	1124	1280	1200	1320	400	626	12 x 30	14	158
112D LAT	7,5	57.000	42.500	200	284	1000	73,7						546			152
125C LAT	7,5	79.000	60.000	200	311	1000	77,0						456			158
125D LAT	11	90.500	68.900	200	347	1000	78,6	1255	1420	1330	1470	400	615	12 x 30	14	188
125E LAT	15	97.700	77.500	200	385	1000	79,8						659			208
140C LAT	11	96.900	69.000	250	342	1000	78,9						615			198
140D LAT	15	109.000	82.000	250	380	1000	80,7	1405	1580	1490	1630	450	659	16 x 22,5	14	218
140E LAT	18,5	120.400	98.000	250	435	1000	83,4						703			257
140F LAT	22	131.500	107.000	250	471	1000	83,9						747			282

Lp* - Sound-pressure-level in open field in 3m distance