POLLRICH DLK® FAN FACTORIES

Drymax
Low-pressure axial fan
AARM reversible



The AARM circulation fan can be used in various industries



The axial fans of DLK Ventilatoren GmbH are the result of intensive cooperation with well-known research institutions, the use of the latest tools for product development (CFD, FEM,...) and million investments in up-to-date manufacturing technology. The new series combines best price with optimal performance.

With our 40 years of experience, our AARM wood drying machine not only offers reliability and quality, but also full developed technology, and the appropriate knowhow to achieve excellent results in various industries and applications.

The following are some examples of the many possible uses:



In order not to impair the quality of the wood while processing, a technical wood drying method is used.

By using our AARM in drying chambers, together with uniform stacking, temperature control, drying phases, conditioning time and a constant current air flow, the wood is dried in a short amount of time.

Cracks, rot and discolouration, which can be caused by a high level of moisture in the wood, are thereby avoided.

Construction materials industry:

Gentle and uniform drying is important in order to obtain the highest quality and durability of plaster casting. This goal can be easily achieved with our AARM thanks to optimum climate control and airflow.



Equipment for the ceramics industry:

Even for drying ceramics, porcelain and sanitary articles, with its technological advantages, our AARM is essential.

... and in many other industries!

Product specific information

Drymax by Pollrich DLK

Casing:

Made of high-quality aluminum, with outlet cone and welded motor bracket of aluminium.

Impeller profile

Hub and impeller blades made of a highly corrosion-resistant aluminium alloy (saltwater-proof). Symmetrically profi led blades for 100% reversible airfl ow, adjustable at standstill. Dynamically balanced according to DIN ISO 21940-11, balancing quality G 6.3 < 4.0 mm/s.

Drive:

Particularly suitable motors for the drying industry in 400V / 50Hz or 460V / 60Hz, protection class IP55, IE1 or IE2, ISO class H. Up to and including 3kW: 230V / 400V / 50Hz, from 4kW: 400V / 690V / 50Hz

Suitable for continuous operation S1. Ambient temperature on three-phase motor max. 85°C, optionally 120°C. Motor performance selected for cold start-up at 20 °C.

Temperature range:

Permissible conveying temperatures: -20°C to 85°C and 120°C

Performance adjustment:

Please note the max. speed of the impeller and the max. power output of the motor.

Air performance curves:

The performance curves show the total pressure increase pf as function of the flow rate qv.

The curves are valid for direct drive with stated number of poles at 50 Hz and pressure side duct connection. The performance measurement is made on suction side chamberand duct test rigs according to DIN 24163 resp. ISO 5801 for an air density of 1.2 kg/m³ and 20 °C. For the operating data of our fans, the tolerances of accuracy class 3 according to DIN 24166 are applied.





Sound:

Below the air performance curves, the A-weighted sound power level Lp(A) is indicated for the respective blade angle. Indicated values according to VDI 3731.

Installation:

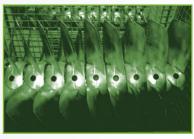
Standard for horizontal installation. Vertical installation on request.













Technical data

Characteristics:

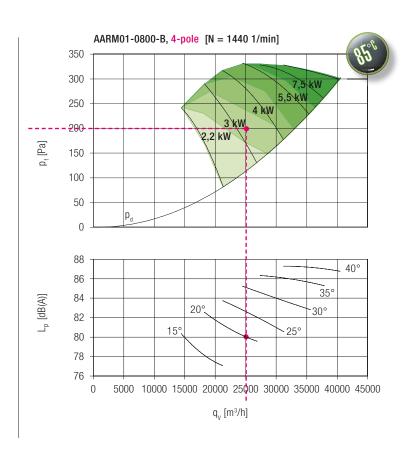
Example:

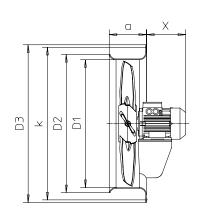
qv= 25000m³/h pf= 200Pa

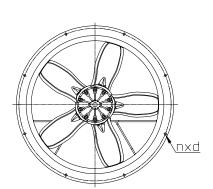
-> Blade angle: 20° / Motor: 3kW

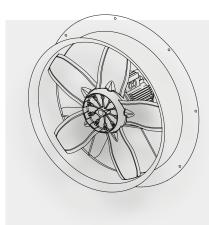
Sound pressure level Lp (A) at a distance of 3m.

At the operating point: 80 dB(A)









Fan	Flow rate (max. values)	Pressure (max. values)	Motor BG	a	D1	D2	D3	nxd	k	x max.	Weight [kg]
AARM01-0630-B	19500	200	80-100	165	632	712	800	8 x 12	760	248	24-44
AARM01-0710-B	27500	260	90-112	185	713	793	900	8 x 12	860	281	33-68
AARM01-0800-B	40500	335	100-132	235	804	870	992	8 x 14	960	378	44-117
AARM01-0900-B	54500	430	100-132	280	905	985	1100	8 x 14	1060	376	53-126
AARM01-1000-B	75000	530	132-160	340	1005	1065	1165	8 x 14	1115	397	73-162

Why choose our newly developed AARM, exactly?

We have the answer

for you!

Fully reversible / symmetrically profiled blades

- optimal adjustment to the specific application area
- constant air circulation

Impeller blades adjustable at standstill

 optimal adjustment at the operating point

Impeller and casing made of aluminium

- high level of wear and corrosion protection
- lightweight construction
- easy mounting

Special drying motor

- low exchange costs
- increased longevity

Two temperature ranges up to 85°C resp. 120°C

- use at high temperatures
- application in different drying concepts

AARM performance in comparison with the competition

- 10% higher flow rate
- 8% higher of efficiency
- 8% higher operating point

Comparison of operating cost

DLK and a competitor, as an example of an operator with an average of 6 drying chambers each equipped with 8 fans.



Our 40 years of experience will be to your benefit!

At comparable operating points, operating cost savings of approx. 25 000 € (15%) annually can be achieved by using our AARM wood drying fan.

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Our service team is available for you around the clock.

- Technical advice
- Assembly
- Commissioning
- Performance tests
- Noise and vibration measurements
- Inspection
- Preventative maintenance
- Maintenance and repair
- Electronic balancing
- System optimisation

