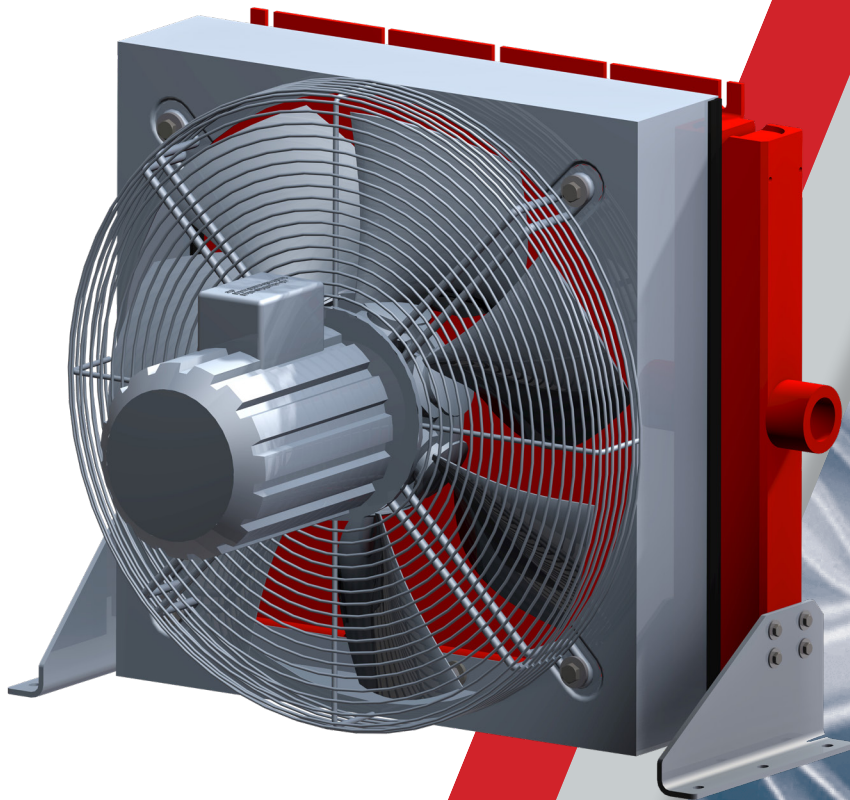


AKG-Line

GLOBAL STANDARD COOLER

CA Series Compressor Aftercooler



GLOBAL STANDARD AKG LINE CA

Air/Air Heat Exchangers with AC-Motor

Product Information

The **AKG-Line CA** (Compressor Aftercooler) was specially developed in order to cool down compressed air. Based on AKG's experience with compressor OEM cooler designs along with many years of compressor cooler field service in rugged real life conditions, we developed our AKG Line CA of Standard Compressor aftercoolers. AKG is best known for its world-wide presence, German engineering and extremely reliable product quality on the one hand and very competitive prices on the other hand.

AKG-Line CA LP Series (Low Pressure) and **AKG-Line CA HP Series** (High Pressure) consist of different aftercooler models for stationary and mobile applications. Aftercooler assemblies include aftercooler, fan unit, AC motor, finger guard and support feet. **AKG-Line CA** complies with European Standard and is available through our global specialist dealer network.

All of AKG's solutions have been developed with state-of-the-art technology, produced in compliance with the highest quality standards and are comprehensively tested in the company's own research and test facility.

AKG-Line CA LP Series was developed to handle very low internal pressure drops for operating pressures up to 3 bar and temperatures up to 250 °C. Typical applications are rotary piston fans (roots blowers).

AKG-Line CA HP Series was developed for high compressor airflows with low approach temperatures for operating pressures up to 16 bar and temperatures up to 120 °C. These coolers are ideal for difficult applications operating as an aftercooler or intermediate cooler in a multi stage compressor, e.g. in tropical conditions.

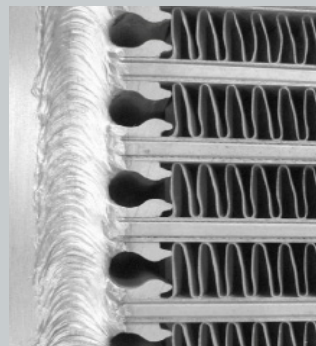
Features

- High-Performance Aluminium cooling assemblies
- AC-motor powered fan (pushing)
- The heat is transferred from the medium to be cooled to the ambient air
- Can be exposed to 16 bar / 120 °C (HP) and 3 bar / 250 °C (LP)

Benefits

- Highly flexible complete, ready-to-use compressor cooling packages
- Best heat transfer results per given cooler size due to comprehensive research and development
- Highest quality due to professional engineering and in-house manufacturing
- Available from stock or at short notice
- As a standard, equipped with **AKG's double-life** hollow sections designed to increase cooler service life
- Noised optimized models available as a standard option (low-noise series)
- Available for 50 Hz and 60 Hz fan unit motorization
- Especially suited for rugged environments. Fin system prevents clogging and is easy to clean

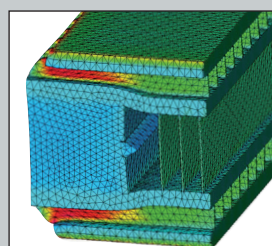
Flexible AKG Hollow Profile



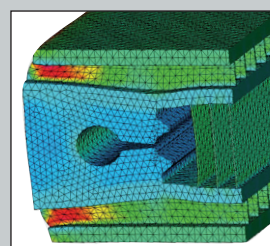
AKG-Line uses AKG hollow profiles to reduce local peak strains. This way the strength of heat exchangers is significantly increased and their service life time considerably prolonged.

AKG Hollow Profile Features

- **Reduced Strain:**
Strength calculations show that when using AKG hollow profiles maximum strain is reduced by a factor of 2
- **Prolonged Service Life Time:**
Extensive rig tests have shown that service life time increases by a factor ranging from 3 to 5



with standard profile



with hollow profile

GLOBAL STANDARD AKG LINE CA

Technical Data

Model Size	Max. Operating Data		Voltage of 3 Phase Motor (V)	Motor Power Consumption (kW)	Nominal Fan Speed (U/min)	Approx. Noise Level (dB (A),1m)	Approx. Net Weight of Assembly		Frequency (HZ)
	HP (bar/°C)	LP (bar/°C)					HP (kg)	LP (kg)	
CA25	—	3/250	230/400	0,37	3000	80	—	21	50
CA50	16/120	3/250	230/400	0,55	1500	81	33	33	50
CA150	—	3/250	230/400	0,75	1500	80	—	42	50
CA225	16/120	3/250	230/400	0,75	1500	83	56	55	50
CA300	—	3/250	230/400	0,75	1500	82	—	94	50
CA475	—	3/250	230/400	2,2	1500	80	—	113	50
CA650	16/120	3/250	230/400	2,2	1500	88	156	165	50
CA700	—	3/250	230/400	2,2	1500	88	—	213	50
CA800	—	3/250	400/690	11	1500	98	—	381	50
CA1000	—	3/250	400/690	11	1500	98	—	440	50

All data based on nominal speed conditions

Standard Scope of Supply of Air-to-Air Cooling System

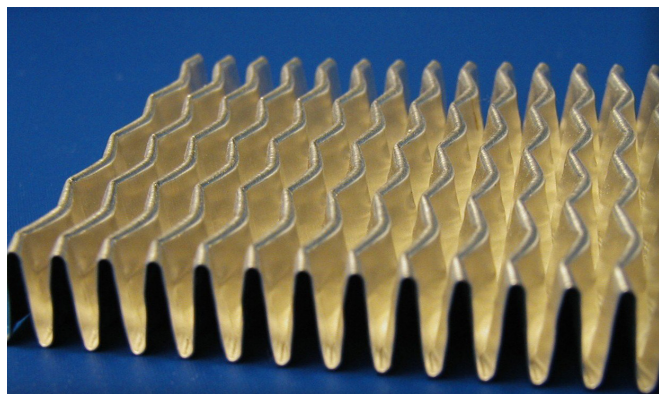
Cooler made of painted aluminium

Plastic fan

Fan-Shroud, fingerguard support feet and motorholder all made of steel (chromated or powder coated)

Motor

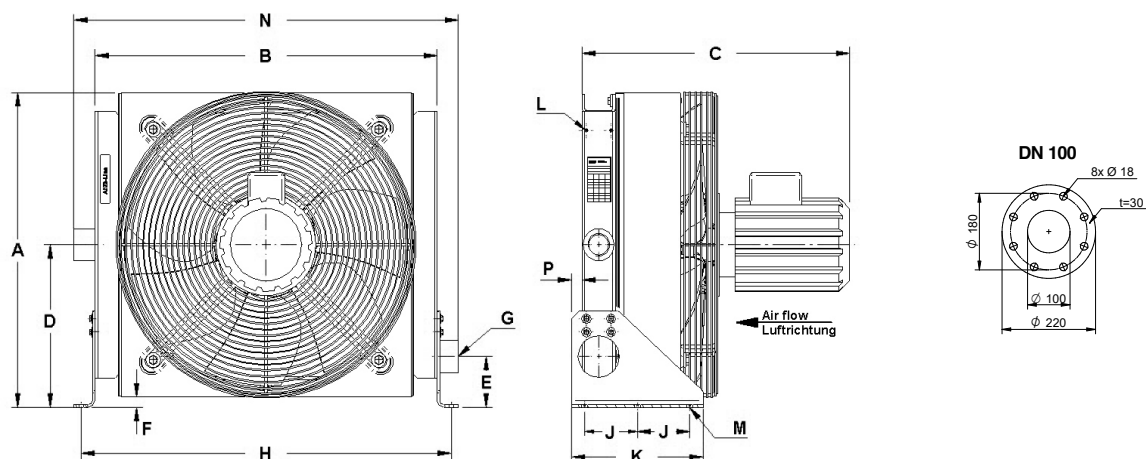
Cooling Air Fins



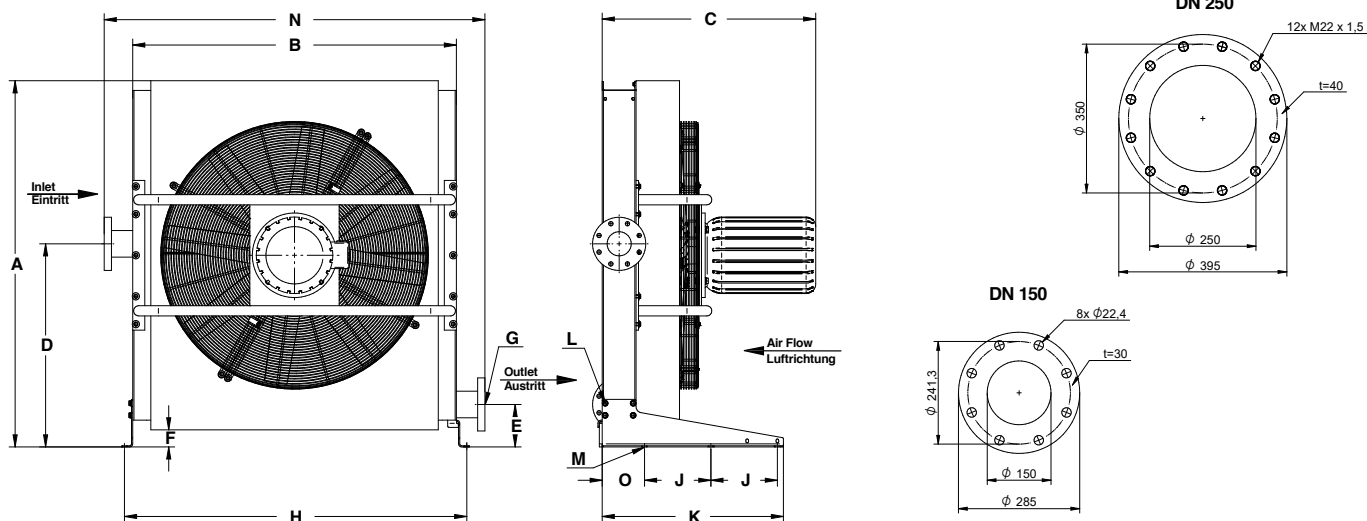
CA Series equipped with anti-clogging fins, easy to clean.

GLOBAL STANDARD AKG LINE CA

Cooler Dimensions CA25 to CA475



Cooler Dimensions CA650 to CA1000



Dimensions

Model Size	A	B	C (approx.)	D	E	F	G	H	J	K	L	M	N	O	P
CA25	373,5	400	408	197,5	95	21,5	G1 1/4	453	100	250	M6	9 x 12	480	-	22
CA50	482,5	550	521	252,5	95	22,5	G1 1/4	603	100	250	M6	9 x 12	630	-	22
CA150	585	650	508	302,5	95	20	G1 1/4	703	100	250	M6	9 x 12	730	-	22
CA225	647,5	773,5	512	335	107	22,5	G2	826	115	280	M8	9 x 12	863	-	21
CA300	781	943	626	427	160,5	73	DN100	1020	187,5	550	M10	Ø14	1155	150	-
CA475	869,5	993	669	469,5	160,5	69,5	DN100	1070	187,5	550	M10	Ø14	1205	150	-
CA650	983,5	1092	677	576	176	73,5	DN150	1169	275	750	M12	Ø14	1330	175	-
CA700	1006	1090	737	600	275	-	DN250	1301	220	1000	M12	Ø14	1171	460	-
CA800	1516	1340	884	841	176	71	DN100	1354	275	750	M12	Ø14	1578	175	-
CA1000	1528	1340	949	735	265	-	DN250	1411	220	1000	M12	Ø14	1420	460	-

All dimensions in mm

Ordering Information

Series: Model Size: Pressure Range:

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CA
CAL (Low Noise)

Low Pressure [LP]
High Pressure [HP]

Optional Custom Features:

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with:
- PTFE Based Coating [+T]
- Motor Frequency 60 Hz [+60Hz]

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without:
- Motor [-M]
- Cooler only [C]

Order Code Example: Heat Exchanger, Low Pressure, Air Volume 25 l/s, pushing, AC-driven fan > CA25LP
Heat Exchanger, Low Pressure, Air Volume 225 l/s, pushing AC-driven fan > CA225HP



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GLOBAL EXCELLENCE I[®] THERMAL MANAGEMENT

AKG is a leading global provider of customer-oriented system solutions, a reliable supplier of high-performance coolers, heat exchangers and thermal management systems that meet the highest quality standards.

The head office in Hofgeismar controls the progress and success of the Group, which has more than 3,000 employees and manufactures over 1.1 million heat exchangers per year in various designs. Worldwide, 11 independent production facilities in Germany, France, Latvia, Turkey, India, the USA, Brazil and China as well as 15 sales companies operate around the clock.

The AKG Group develops and produces high-performance heat exchangers as well as complete cooling modules and systems for construction machinery, compressed air systems, industrial coolers, agricultural and forestry machinery, vehicle construction, rail vehicles, aviation, municipal vehicles, household appliances and special applications.

For over 100 years, AKG heat exchangers have been synonymous with innovative solutions and the highest levels of engineering and manufacturing expertise.