

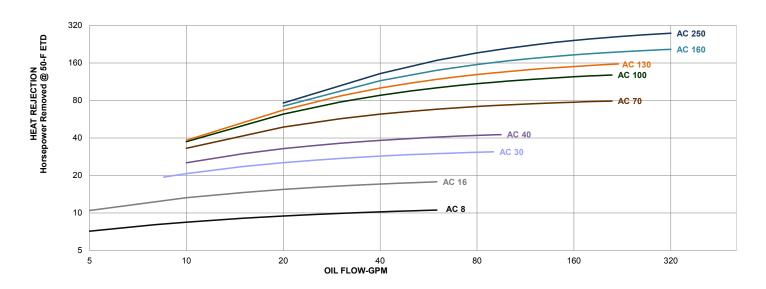
AC-series Classic



Classic AC-series



STANDARD MODELS

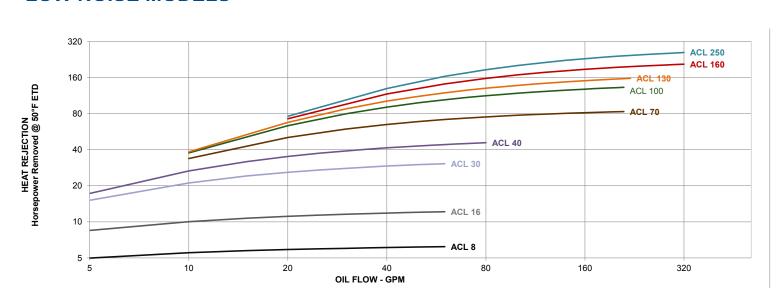




Specifications:									
Maximum Working Pressure	250 PSI								
Maximum Working Temperature	250°F								

Materials	
Cooler	Aluminum
Shroud	Power Painted Steel
Fan Guard	Zinc Plaited Steel
Fan Blade	Polypropylene Blades Aluminum Hub
Mounting Brackets	Powder Painted Steel

LOW NOISE MODELS



Classic AC- series



AC/ACL TECHNICAL DATA

Model Size	HP RPM		MOTOR FRAME		Voltage (3 Phase)	Hz	Full Load Amps 230V.		Approx Noise Level (dB(A), 1m)		Working Pressure (psi)	Approx. Shipping Weight (lb.)	
	AC	ACL	AC	ACL			AC	ACL	AC	ACL			
AC8/ACL8	1/3 3430	1/4 1655	IEC 63	IEC 63	230/460 200/400	60 50	1.1	1.2	80	65	250	45	
AC16/ACL16	1/2 3410	1/3 1705	IEC 71	IEC 71	230/460 200/400	60 50	1.6	1.4	85	73	250	55	
AC30/ACL30	1/2 1725	1/2 1140	NEMA 56C	NEMA 56C	208-230/460	60*	2.0	2.4	85	75	250	125	
AC40/ACL40	1 1725	1/2 1140	NEMA 56C	NEMA 56C	208-230/460	60*	3.8	2.4	88	79	250	163	
AC70/ACL70	2 1725	3/4 1140	NEMA 56C	NEMA 56C	208-230/460	60*	6.2	3.0	93	83	250	240	speed
AC100/ACL100	5 1750	1.5 1140	NEMA 184TC	NEMA 56C	208-230/460 190/380	60 50	14.0	5.7	94	86	250	405	at nominal s
AC130/ACL130	7.5 1760	2 1170	NEMA 213TC	NEMA 184TC	208-230/460 190/380	60 50	24.0	7.4	96	88	250	420	
AC160/ACL160	7.5 1760	5 1170	NEMA 213TC	NEMA 215TC	208-230/460 190/380	60 50	24.0	19.8	98	89	250	545	a based
AC250/ACL250	10 1750	5 1170	NEMA 215TC	NEMA 215TC	208-230/460 190/380	60 50	29.0	19.8	101	92	250	688	All data

Electric motors are TEFC and are not thermally protected
Actual rating may vary with motor brand. check motor nameplate for actual rating
Motor RPM is reduced by 1/16 for 50 Hz service

* - 3 phrase motors available in 50 Hz

AC/ACL DIMENSIONS

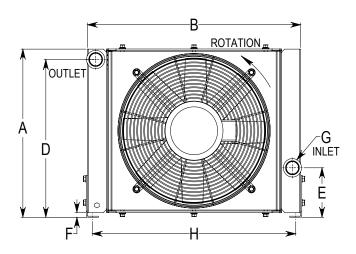
Model Number	Α	В	C (approx.)	D	Е	F	G (SAE)	н	J	K	L	М
AC8/ACL8	12.48	16.02	15.08	11.3	3.3	0.55	SAE #16	14.33	3.07	3.5	7.36	M8 X 10
AC16/ACL16	16.14	19.96	15.71	14.96	3.31	0.59	SAE #16	18.46	3.07	3.5	7.36	M8 X 10
AC30/ACL30	20.47	26.65	17.6	19.21	6.02	0.59	SAE #20	25.16	4.17	3.74	9.02	M10X 20
AC40/ACL40	22.32	30.59	18.27	21.06	6.02	0.59	SAE #20	29.09	4.17	3.74	9.02	M10 X 20
AC70/ACL70	28.15	39.45	22.52	20.12	10.2	2.12	2" SAE 4 BOLT FLG	37.64	5.39	7.87	15.47	M12 X 20
AC100/ACL100	37.24	43.39	24.57	29.45	9.09	0.59	2" SAE 4 BOLT FLG	42.76	5.39	7.87	15.47	M12 X 20
AC130/ACL130	38.94	45.33	29.75	32.38	9.02	0.59	2" SAE 4 BOLT FLG	43.52	5.39	7.87	15.47	M12 X 20
AC160/ACL160	45.33	51.24	30.26	34.49	11.02	0.65	3" SAE 4 BOLT FLG	49.44	5.39	7.87	15.47	M12 X 20
AC250/ACL250	59.76	53.27	30.55	43.62	17.56	2.00	3" SAE 4 BOLT FLG	50.35	7.8	10.00	20.00	.75 X 2.25

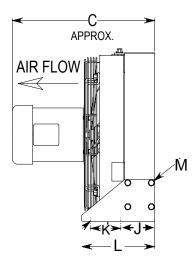
We reserve the right to make reasonable changes without notice All dimensions in inches Weights are in pounds

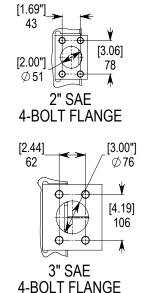
Classic AC-series



COOLER DIMENSIONS







SELECTION PROCEDURES

The performance curves above are based on the following:

- 50 SUS Oil.
- 50 oF Entering Temperature Difference (ETD)

If your application conditions are difference, use the following selection procedure:

STEP 1. Determine the Heat Load

In most cases you can use 1/3 of the input horsepower. Example: 30 HP Power Unit = 10 HP Heat Load

STEP 2. Determine the Actual ETD Desired

Entering **OIL** Temperature — Entering **AIR** Temperature = **ETD** The Entering oil temperature is the highest desired oil temperature. The entering air temperature is the highest anticipated ambient air temperature, plus any pre-heating of the air prior to it entering the cooler.

STEP 3. Calculate the Adjusted BTU/hr for Selection

STEP 4. Determine The Model From The Curves

Read up from the GPM to the required heat rejection. Select any model on, or above this point.

ORDERING INFORMATION

AC SERIES STANDARD MODEL SIZE SELECTED

ACL SERIES LOW NOISE -

MOTOR DATA 0=MOTOR

C=CORE ONLY 1=SINGLE PHASE 3=THREE PHASE 575=575 VOLT

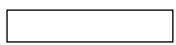


BYPASS DATA

BPNV = BYPASS NO VALVE BP25 = 25PSI INTERNAL BYPASS

BP30 = 30PSI INTERNAL BYPASS BP60 = 60PSI INTERNAL BYPASS

BP65 = 65PSI INTERNAL BYPASS



CUSTOM FEATURE CODE

R=REVERSED

AD=SAE TO NPT ADAPTORS INSTALLED H=HERESITE COATING/CORE ASSEMBLY F=FOAM FILTER

Classic AC-series



OIL-TO-AIR COOLING SYSTEMS WITH AC-MOTOR

PRODUCT INFORMATION

AKG Classic Series is a standard line of products from the market leader in high performance aluminum cooling systems. 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.

The Classic series consists of different models for mobile and stationary applications and are available through our global dealer network. This line of products embraces complete cooling systems that comply with both European and American standards, is suited for normal or rugged environmental operating conditions, and is powered by AC-, DC or hydraulic-motor-driven fans and is also available with noise-optimized models.

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

FEATURES OF THE AC/ACL SERIES:

- High-Performance cooling assemblies
- AC-motor powered fan
- The heat is transferred from the medium to be cooled to the ambient air
- Cooler can be universally used in hydraulic oil, transmission oil, engine oil, lubricating oil and coolant circuits.
- For the cooling of mineral oil, synthetic oil, biological oil as well as of HFA, HFB, HFC and HFD liquids and water with at least 50 per cent of antifreeze and anti corrosive additives (other media available).
- Can be exposed to operating pressures of up to 17 bar.

BENEFITS:

- Highly flexible complete, ready-to-use cooling packages
- Compact and robust design, field-tested during many years of use in rugged real life conditions
- Largest and most comprehensive series of industrial coolers
- Best heat transfer results per given coolers size due to comprehensive research and development
- Highest quality due to professional engineering and inhouse manufacturing
- Available from stock or at short notice
- As a standard, equipped with AKG's patented doublelife hollow sections designed to increase cooler service life
- Noise-optimized models available (low-noise series)

AC/ACL - FEATURES/BENEFITS

- AC series coolers with louvered fin design provides the best HEAT TRANSFER per given cooler size in the industry
- ACL low noise series coolers offer slower fan speeds for reduced noise level & lower fan HP requirements
- AC/ACL rugged series coolers have proprietary R &D designed, engineered and tested internal and external fins unique to AKG THERMAL SYSTEMS coolers.
- AC/ACL series coolers are available with internal pressure BYPASS option
- AC/ACL series coolers offer the largest, most comprehensive coolers size ranges with competitive pricing and deliveries from stock.

PATENTED FLEXIBLE AKG HOLLOW PROFILE



Classic Series
uses patented AKG
profiles to reduce
local peak strains.
this way, the strength
of heat exchanges
is significantly
increased and
their service life
time considerably
prolonged.

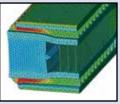
AKG HOLLOW PROFILE FEATURES:

Reduced Strain:

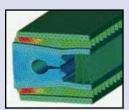
Strength calculations show that when using AKG hollow profiles maximum strain is reduced by a factor of 2

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





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AKG – A STRONG GLOBALLY INTEGRATED GROUP OF COMPANIES

AKG is a globally leading supplier of high-performance coolers and heat exchangers as well as customized system solutions, that comply with the highest quality standards.

On a world-wide scale, 2,400 employees work at 14 manufacturing facilities located in Germany, France, United Kingdom, Latvia, the U.S.A., China and India. Together with a number of additional oversea sales companies they are on duty around the clock.

The longstanding and competent partnership with global OEM customers from 22 lines of business

such as construction machinery, compressed-air systems, agricultural and forestry machines, vehicle construction and many other fields of application give fresh and innovative impetus to the mobile and industrial standard type series.

AKG operates one of the world's largest research, development, measurement and validation centres for cooling solutions and customized applications.

For 98 years AKG's heat exchangers have stood for innovative solutions as well as highest engineering and manufacturing competence.

Aluminum Coolers – Made by AKG
DIN EN ISO 9001