



# Engine-Line



## Customer Benefits

- Short lead times
- Fast prototyping & testing
- Low cost
- Configurable system
- Off-the-shelf options
- Handles a broad range of engines

# Selection Procedure

## Basic Arrangement

AEL	AEL									A	X
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## Cooling Package Size

Size	Approximate Horsepower Rating	
01	30hp - 100hp	Radiator and Charge Air Cooler
02	100hp - 200hp	
03	200hp - 300hp	
04	300hp - 400hp	
05	400hp - 500hp	
06	500hp - 600hp	
07	600hp - 700hp	
11	30hp - 100hp	Includes Optional Oil Cooler
12	100hp - 200hp	
13	200hp - 300hp	
14	300hp - 400hp	
15	400hp - 500hp	
16	500hp - 600hp	
17	600hp - 700hp	

\*Refer to Figures 1-8 to determine basic sizing

\*\*For cooling packages requiring HOC, use sizes 11-17

## Fan Drive

H	Hydraulic Motor
N	Hydraulic Motor Mount Only
E	Engine Drive - No Clutch
C	Engine Drive - Clutch
X	None (choose for No Fan)

## Fan Direction

B	Blower Fan
S	Sucker Fan
X	No Fan

## Fan

L	Low Static
H	Standard
X	No Fan

## Mounting Base

B	Base Included
X	None

## Core Guard

G	Guard Included
X	None

## Surge Tank

T	Surge Tank Included
X	None

\*HORSEPOWER RATINGS ARE APPROXIMATE. ALL APPLICATIONS MUST BE VALIDATED BY AN AKG APPLICATION ENGINEER

# Cooling Package Selection Tables

## AIR TO CORE TEMPERATURE VS ENGINE DISPLACEMENT/HORSEPOWER

### Engine Driven Fans

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	01	01	01	02	02	02	03	03
175	02	02	02	03	03	04	04	04
225	03	03	04	04	04	04	04	05
300	04	04	04	05	05	05	06	06
475	05	05	05	06	06	07	07	07
575	06	06	06	07	07	07	07	07
675	07	07	07					

Low Static Fan (Figure 1)

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	01	01	01	01	01	02	02	02
175	01	01	02	02	02	02	03	03
225	03	03	03	03	03	03	03	03
300	03	03	03	04	04	04	05	05
475	05	05	05	05	05	05	06	06
575	05	05	05	05	06	06	06	07
675	07	07	07	07	07			

Standard Fan (Figure 2)

### Hydraulic Driven Fans

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	01	01	01	01	01	01	02	02
175	01	01	01	02	02	02	02	02
225	03	03	03	03	03	03	03	03
300	03	03	03	03	03	03	03	05
475	05	05	05	05	05	05	05	05
575	05	05	05	05	05	05	05	06
675	07	07	07	07	07	07	07	07

Low Static Fan (Figure 3)

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	01	01	01	01	01	01	02	02
175	01	01	01	02	02	02	02	02
225	03	03	03	03	03	03	03	03
300	03	03	03	03	03	03	03	03
475	05	05	05	05	05	05	05	05
575	05	05	05	05	05	05	05	05
675	07	07	07	07	07	07		

Standard Fan (Figure 4)

### Engine Driven Fans with Oil Cooler

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	12	12	12	13	13	13	14	14
175	13	13	13	14	14	15	15	15
225	14	14	15	15	15	15	15	16
300	15	15	15	16	16	16	16	17
475	16	16	16	16	17	17		
575	17	17	17					
675								

Low Static Fan (Figure 5)

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	12	12	12	12	12	13	13	13
175	12	12	13	13	13	13	14	14
225	14	14	14	14	14	14	14	14
300	14	14	14	15	15	15	16	16
475	16	16	16	16	16	16	17	17
575	16	16	16	16	17	17	17	
675								

Standard Fan (Figure 6)

### Hydraulic Driven Fans with Oil Cooler

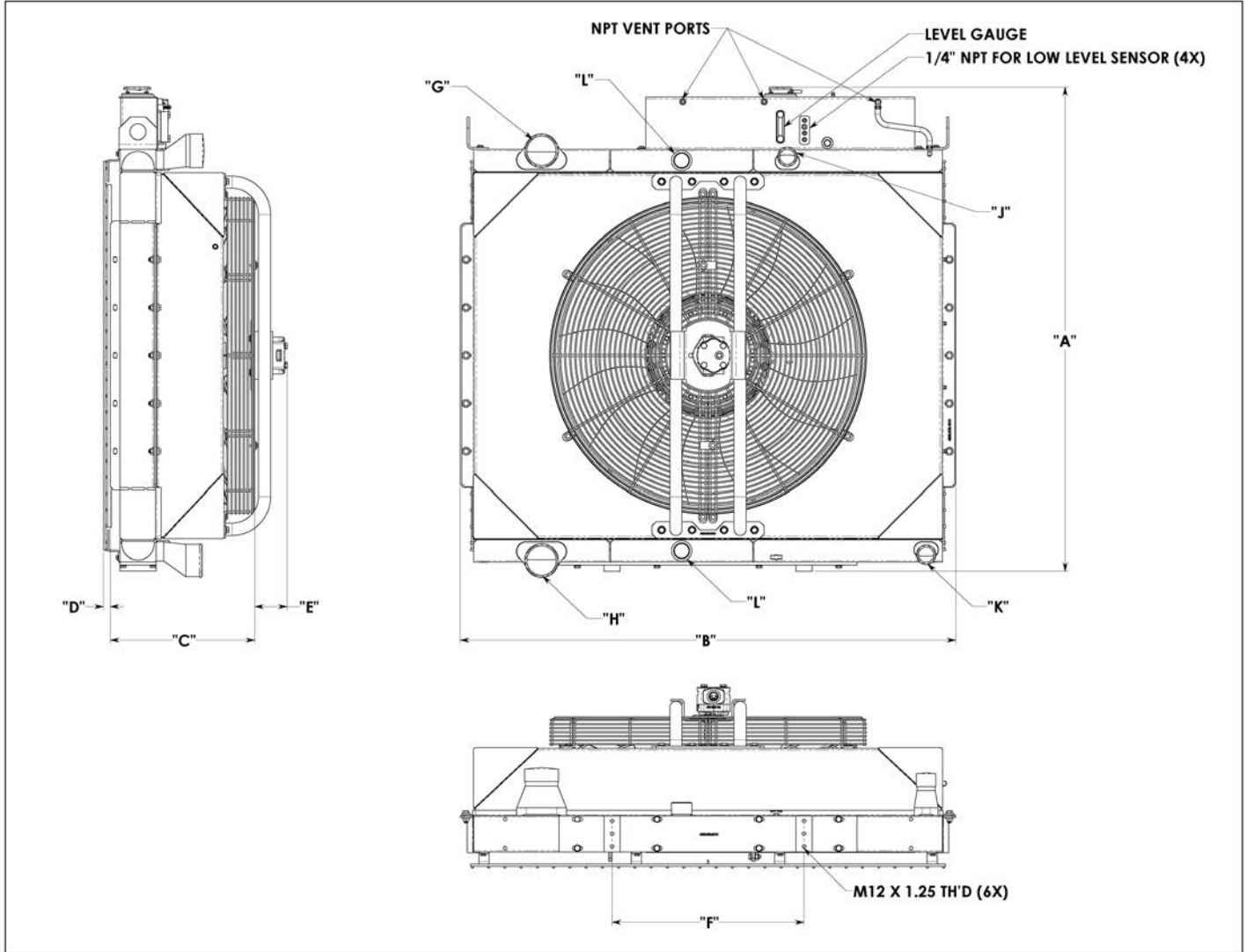
	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	11	11	11	12	12	12	12	12
175	12	12	12	12	12	12	12	13
225	13	13	13	13	13	13	13	13
300	13	13	13	13	13	13	15	15
475	15	15	15	15	15	15	15	16
575	15	15	15	15	15	16	16	17
675	17	17	17	17	17			

Low Static Fan (Figure 7)

	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	11	12	12	12	12	12	12	12
175	12	12	12	12	12	12	12	12
225	13	13	13	13	13	13	13	13
300	13	13	13	13	13	13	14	14
475	15	15	15	15	15	15	15	15
575	15	15	15	15	15	15	15	16
675	17	17	17					

Standard Fan (Figure 8)

# Dimensions



Model Size	A	B	C	D	E	F	G	H	J	K	L	M	N
01	40.1	25.7	3.7	5.5	6.9	0.6	7.5	13.4	3.0	2.5	1.5	2.0	-
02	44.5	28.5	4.4	5.5	7.9	0.6	7.5	16.5	3.0	3.0	1.8	2.0	-
03	49.3	32.9	4.4	5.5	11.2	0.6	7.5	19.7	3.0	3.5	1.8	2.3	-
04	53.3	38.0	4.4	5.5	11.2	0.6	8.2	23.6	3.0	3.5	1.8	2.3	-
05	59.8	43.3	4.4	5.5	13.1	0.6	8.2	23.6	4.0	4.0	2.3	2.3	-
06	57.6	45.8	5.5	10.8	14.1	0.6	8.3	27.6	4.0	4.0	2.5	2.5	-
07	63.6	56.8	5.5	11.2	18.7	0.6	11.9	39.4	4.0	4.0	2.5	2.5	-
11	40.1	39.3	3.7	5.5	6.9	0.6	7.5	13.4	3.0	2.5	1.5	2.0	1.0
12	44.5	40.9	4.4	5.5	7.9	0.6	7.5	16.5	3.0	3.0	1.8	2.0	1.0
13	49.3	44.1	4.4	5.5	11.2	0.6	7.5	19.7	3.0	3.5	1.8	2.3	1.0
14	53.3	53.2	4.4	5.5	11.2	0.6	8.2	23.6	3.0	3.5	1.8	2.3	1.5
15	59.8	61.0	4.4	5.5	13.1	0.6	8.2	23.6	4.0	4.0	2.3	2.3	1.5
16	57.6	60.5	5.5	10.8	14.1	0.6	8.3	27.6	4.0	4.0	2.5	2.5	1.5
17	63.6	84.3	5.5	11.2	18.7	0.6	11.9	39.4	4.0	4.0	2.5	2.5	1.5

\*ALL DIMENSIONS ARE IN INCHES



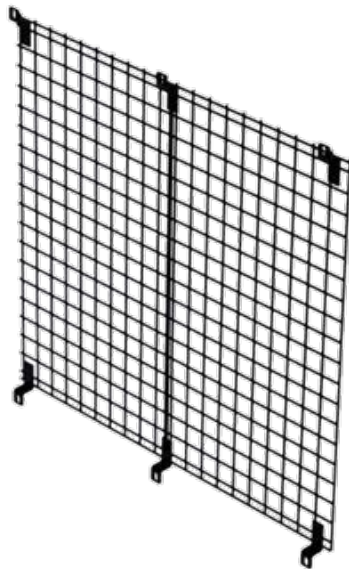
## Surge Tank

- Expansion tank for radiator circuit
- Optimization available after testing



## Fan Drive

- Optional hydraulic fan drive
- Optional E-Viscous clutch fan drive



## Core Guard

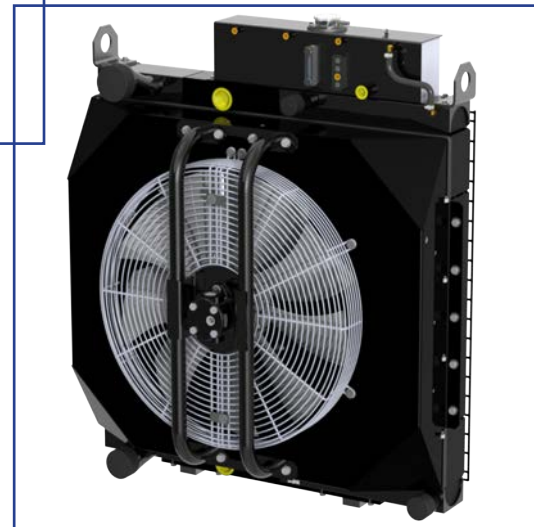
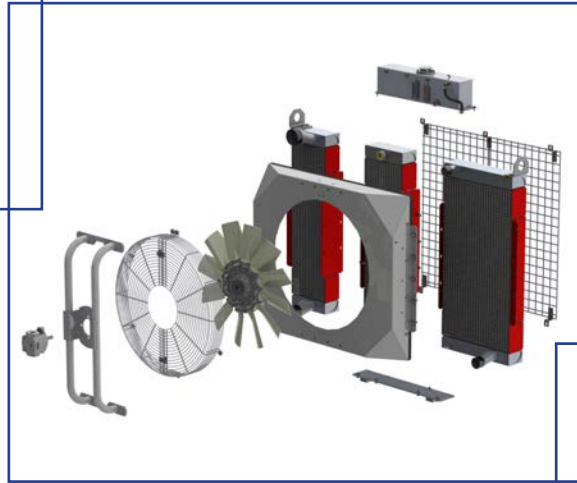
- Protects cooling cores from rocks and debris



## Mounting Base

- Optional base for mounting
- Qty 6 -- M12 threaded holes





AKG's Engine Line allows you to configure an efficient and durable solution for all your engine cooling needs.

## AKG A STRONG GLOBAL PARTNER

AKG is a worldwide manufacturer of high performance coolers and heat exchangers with facilities in the United States, Germany, France, United Kingdom, Latvia, China, Turkey and India.

For 90+ years AKG's heat exchangers have stood for innovative solutions in construction, agriculture and forestry, mining, power generation and air compressors.

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



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