



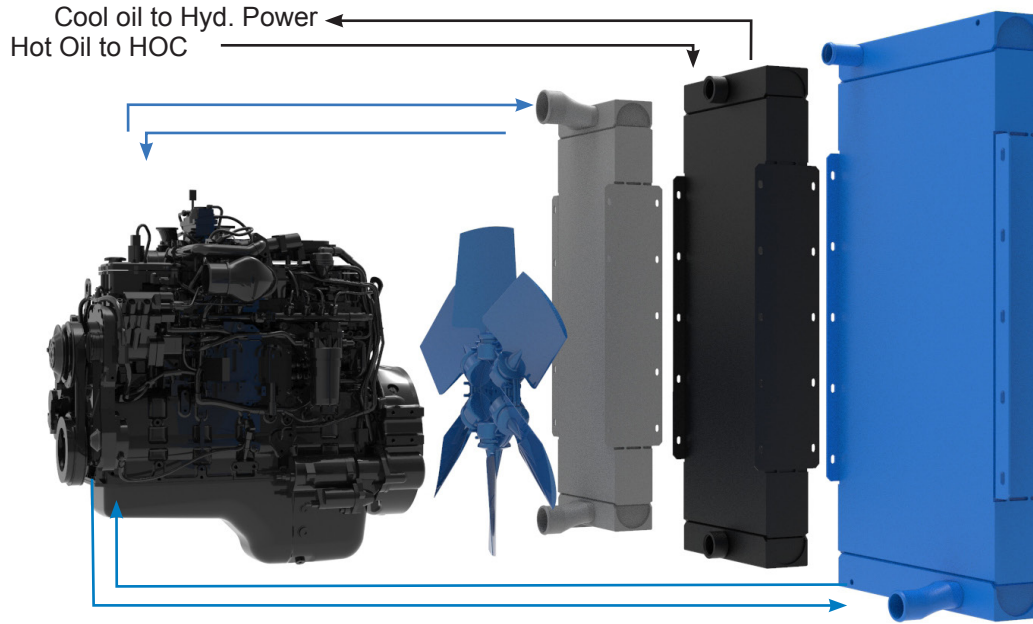
Engine-Line



Customer Benefits

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

AEL AKG ENGINE LINE



Ambient
 Temperature:
 Elevation:
 Fan Speed:

CHARGE AIR COOLER:

Inputs:	
Charge Air Flow:	-
Turbo Outlet Temperature:	-
Turbo Outlet Pressure:	-
Specifications:	
CAC Outlet Temp/IMTD	-

OIL COOLER:

Inputs:	
Oil Flow:	-
Jacket Water Heat Rejection:	-
Operating Pressure:	-
Specifications:	
Max. Coolant Temperature:	-
Max. Pressure Drop:	-

RADIATOR:

Specifications:	
Max. Coolant Temperature:	-
Max. Pressure Drop:	-
Inputs:	
Coolant Flow:	-
Jacket Water Heat Rejection:	-

ORDERING INFORMATION



Size	Approx. HP Rating	
AEL01	30-100hp	Radiator and Charge Air Cooler
AEL02	100-200hp	
AEL03	200-300hp	
AEL04	300-400hp	
AEL05	400-500hp	
AEL06	500-600hp	
AEL07	600-700hp	
AEL11	30-100hp	Includes Optional Oil Cooler
AEL12	100-200hp	
AEL13	200-300hp	
AEL14	300-400hp	
AEL15	400-500hp	
AEL16	500-600hp	
AEL17	600-700hp	

Fan Drive:	
H	Hydraulic Motor
N	Hydraulic Motor Mount Only
E	Engine Drive (Choose for 'No Fan')

Fan Direction:	
B	Blower Fan
S	Sucker Fan
X	No Fan

Fan:	
L	Low Static
H	Standard
X	No Fan

Core Guard:	
G	Guard Included
X	None

Mounting Base:	
B	Base Included
X	None

Surge Tank:	
T	Surge Tank Included
X	None

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

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

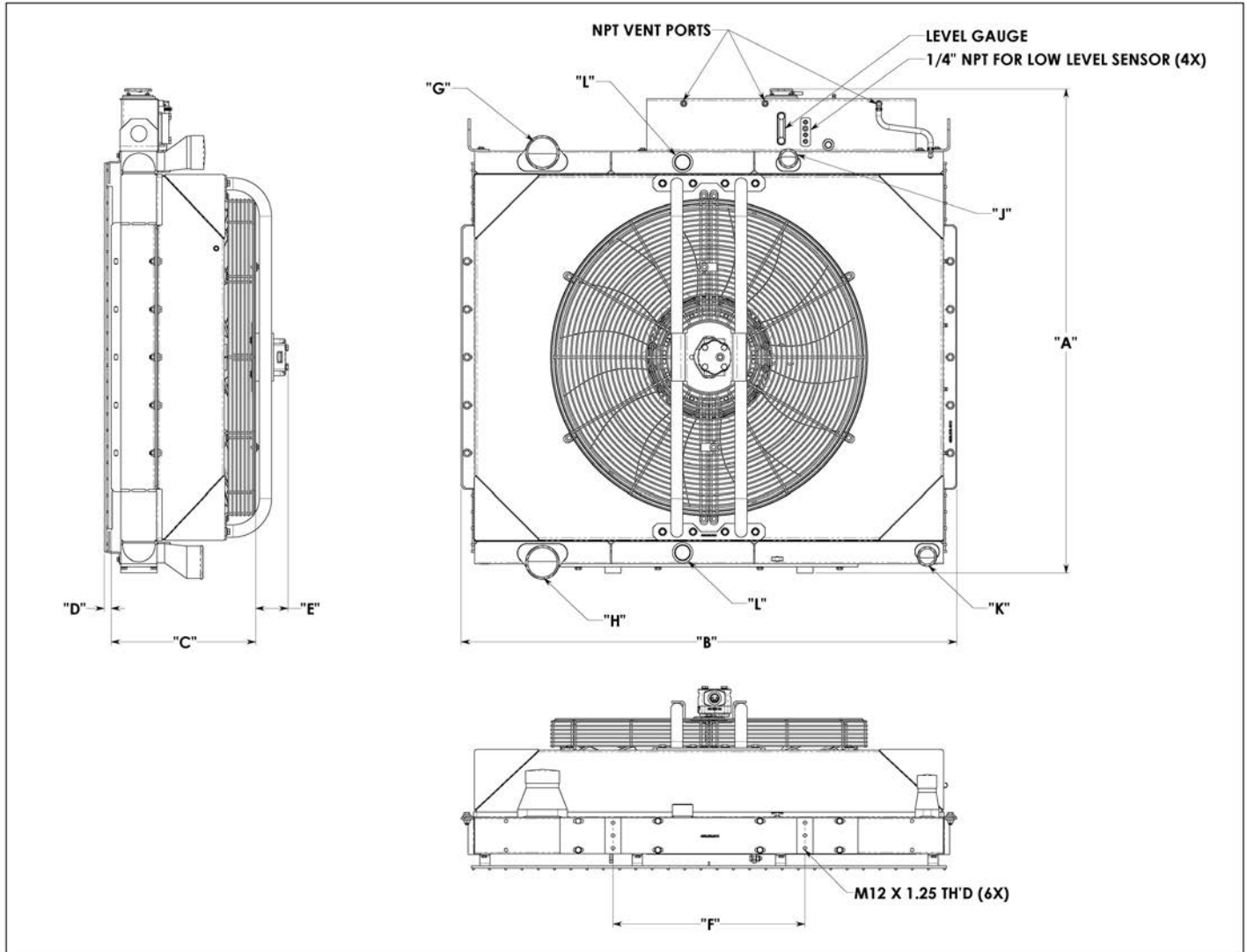
	115°F	120°F	125°F	130°F	135°F	140°F	145°F	150°F
75	11	11	11	12	12	12	12	12
175	12	12	12	12	12	12	12	13
225	13	13	13	13	13	13	13	13
300	13	13	13	13	13	13	15	15
475	15	15	15	15	15	15	15	16
575	15	15	15	15	15	16	16	17
675	17	17	17	17	17			

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)

ENGINE DRIVEN FANS RUN AT 1566 RPM, HYDRAULIC DRIVEN FANS RUN AT MANUFACTURER'S RECOMMENDED MAXIMUM TIP SPEED



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



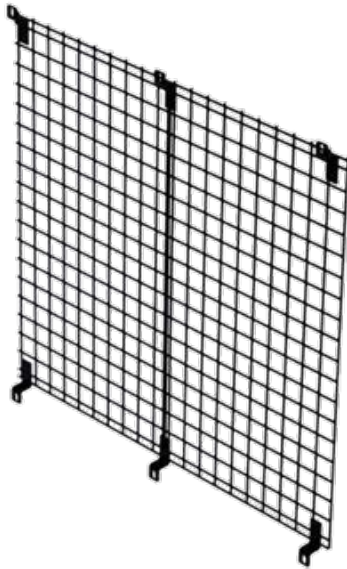
Surge Tank

- 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