



THE NEXT GENERATION OF COOL

NEW OCLV SERIES

Efficient Standard Coolers built for mobile equipment

IEAcooling.com
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9625 55TH STREET, KENOSHA, WI 53144



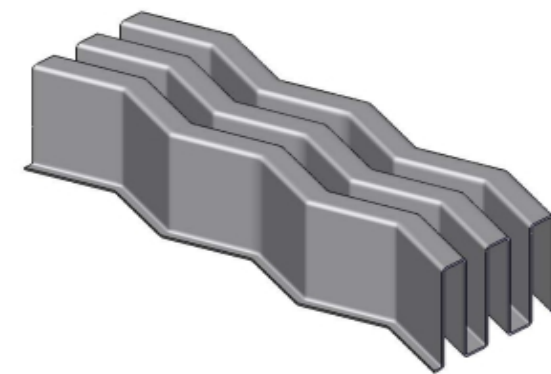
THE NEXT GENERATION OF COOL

COOLING THAT GETS THE JOB DONE

For tough jobs, you need a cooler that can keep pace with your mobile equipment. Lightweight and durable, the new OCLV series is built to handle the demands of the work. And like all IEA heat exchangers, the OCLV series comes in a variety of sizes that can be customized to fit your needs.



SERIES HIGHLIGHTS

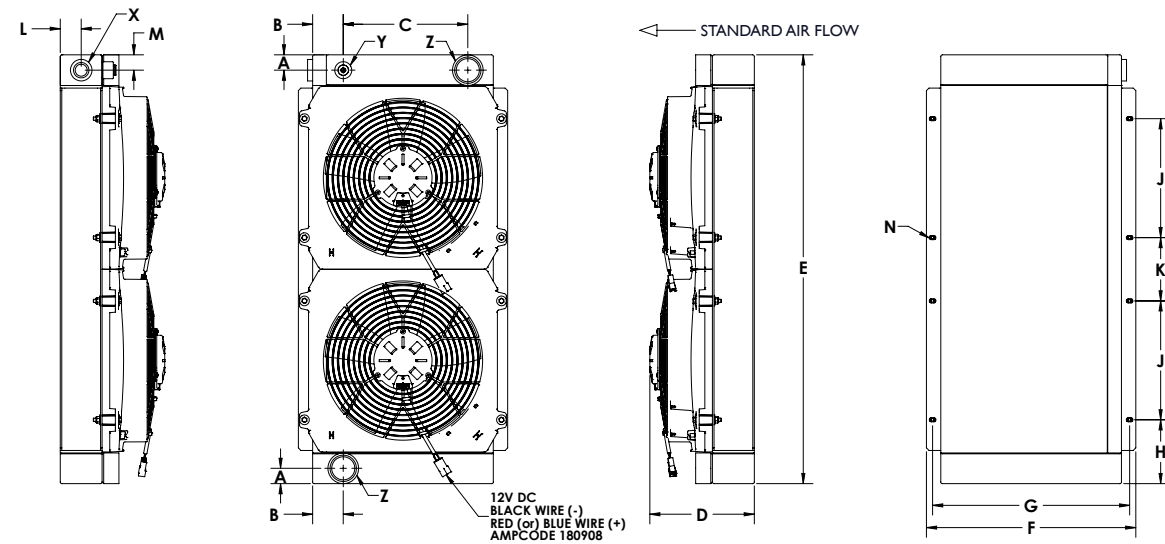


High-performance, low-fouling air fin

- Designed for hydraulic oil, lube oil, fuel cooling or auxiliary cooling
- 12 VDC suction fans standard, other options available
- Rated flows up to 80 GPM; 60 GPM for bypass option
- Long motor lifetime up to 16,000 hours
- Built-in thermostat available
- Pressure rating up to 300 PSI
- Non-louvered, low-fouling air fin
- All SAE ORB ports
- Aluminum bar and plate construction
- IP68 low-noise fans with amp connector 180908



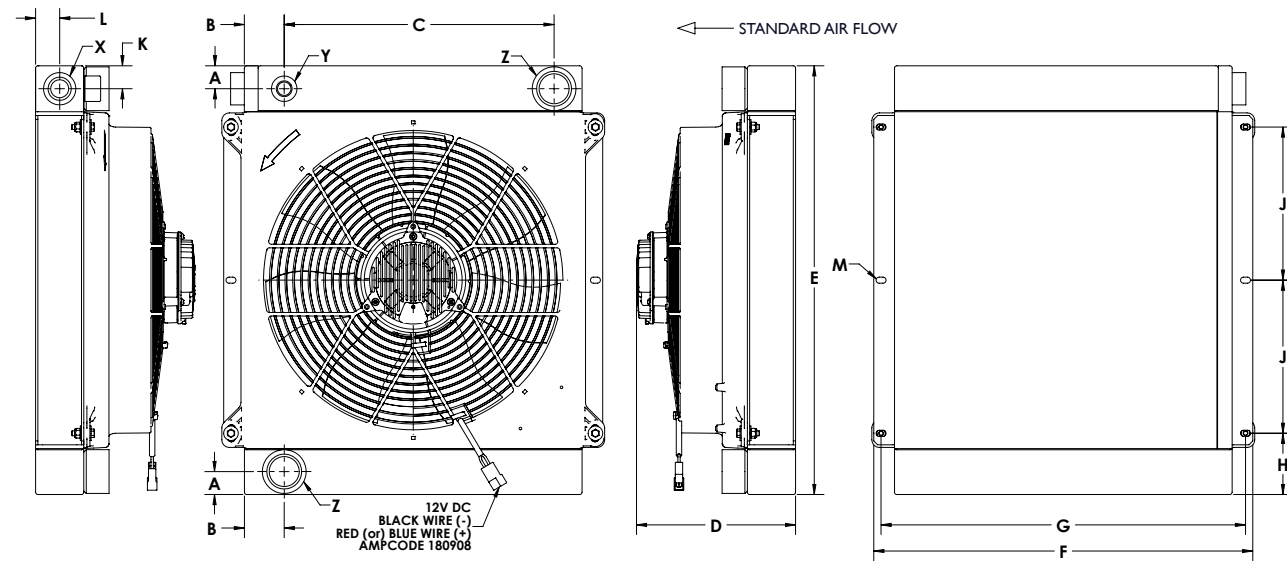
BYPASS TWIN FAN



PART NUMBER	SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	X	Y	Z	
1141052A	OCLV - 4.15	1.18	2.38	13.43	8.93	39.57	19.49	18.74	3.25	15.75	1.57	1.61	1.18	.31	X .51	1 5/16-12 UN-2B (SAE #16)	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141053A	OCLV - 2.75	1.18	2.36	9.61	8.06	33.07	16.14	15.20	4.92	9.17	4.88	1.61	1.18	.31	X .51	1 5/16-12 UN-2B (SAE #16)	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)

All dimensions are in inches

BYPASS SINGLE FAN

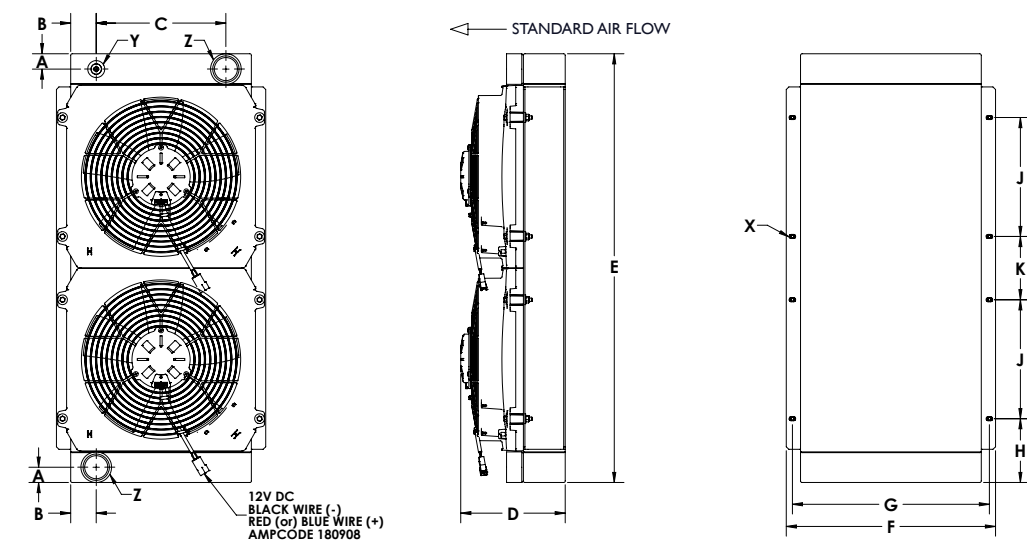


PART NUMBER	SIZE	A	B	C	D	E	F	G	H	J	K	L	M	X	Y	Z	
1141051A	OCLV - 2.00	1.18	2.05	13.88	8.18	22.05	19.49	18.74	3.15	7.87	1.18	1.24	.31	X .51	1 5/16-12 UN-2B (SAE #16)	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141050A	OCLV - 1.36	1.18	2.09	10.00	7.31	18.78	16.06	15.20	4.80	4.59	1.18	1.24	.31	X .51	1 5/16-12 UN-2B (SAE #16)	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141049A	OCLV - 1.00	1.18	2.17	8.90	6.37	16.73	14.96	14.21	4.43	3.94	1.18	1.24	.31	X .51	1 5/16-12 UN-2B (SAE #16)	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141048A	OCLV - 0.50	.83	2.05	4.61	6.26	13.19	9.53	8.78	3.44	3.15	.94	1.24	.31	X .51	1 5/16-12 UN-2B (SAE #16)	3/4-16 UNF-2B (SAE #8)	1 1/16-12 UN-2B (SAE #12)

All dimensions are in inches



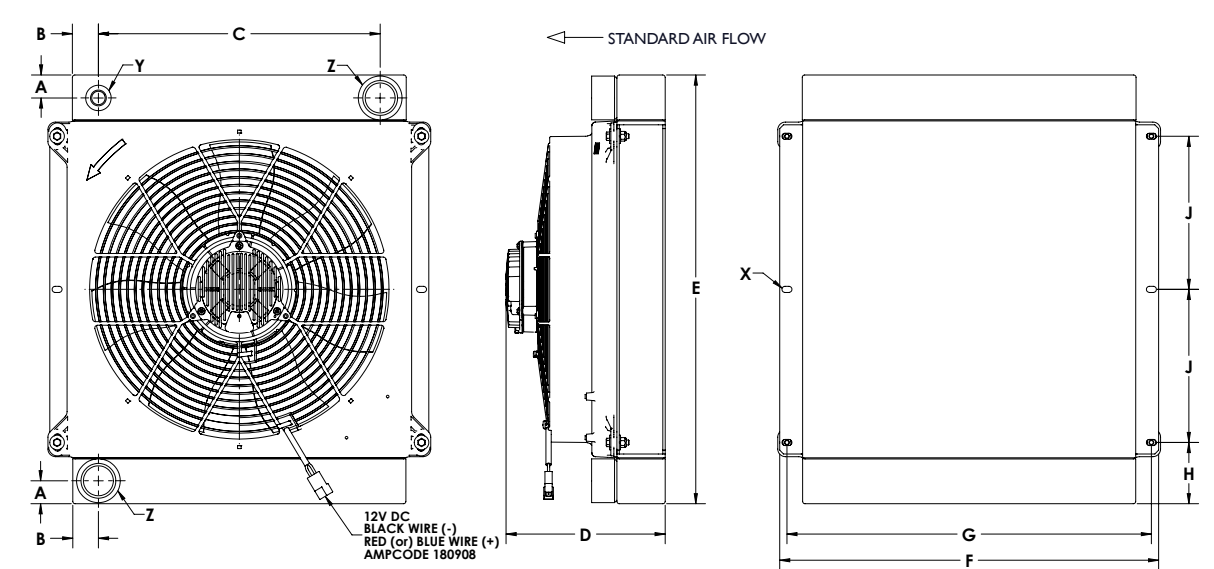
TWIN FAN



PART NUMBER	SIZE	A	B	C	D	E	F	G	H	J	K	X	Y	Z	
1141040A	OCLV - 4.15	1.18	1.32	14.49	8.93	39.57	19.49	18.74	3.25	15.75	1.57	.31	X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141037A	OCLV - 2.75	1.18	1.97	10.00	8.06	33.07	16.14	15.20	4.92	9.17	4.88	.31	X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)

All dimensions are in inches

SINGLE FAN



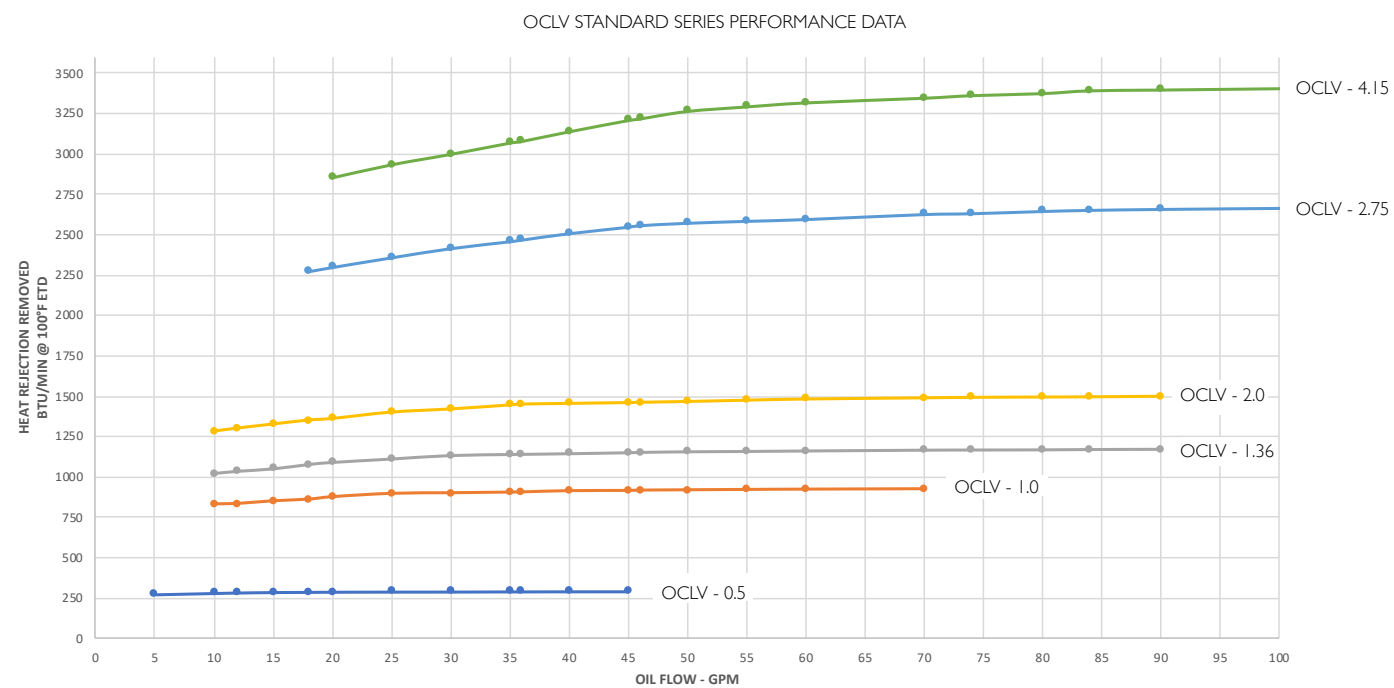
PART NUMBER	SIZE	A	B	C	D	E	F	G	H	J	X	Y	Z	
1141039A	OCLV - 2.00	1.18	1.32	14.49	8.18	22.05	19.49	18.74	3.15	7.87	.31	X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141038A	OCLV - 1.36	1.18	1.97	10.00	7.31	18.78	16.06	15.20	4.80	4.59	.31	X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141036A	OCLV - 1.00	1.18	1.42	9.53	6.37	16.73	14.96	14.21	4.43	3.94	.31	X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
1141054A	OCLV - 0.50	.83	1.02	5.51	6.26	13.19	9.53	8.78	3.44	3.15	.31	X .51	3/4-16 UNF-2B (SAE #8)	1 1/16-12 UN-2B (SAE #12)

All dimensions are in inches



READY TO GET STARTED?

The performance curves are based on the following: ISO VG46 oil and 100°F Entering Temperature Difference (ETD)



STEP 1:

Determine heat load – typical application - size cooler for 1/3 of input heat load

$$HP \times 42.41 = \text{BTU/MIN}$$

STEP 2:

Determine actual ETD desired

$$\text{ETD} = \text{Entering oil temperature (°F)} - \text{Entering air temperature (°F)}$$

- The entering oil temperature is generally the maximum desired system oil temperature. (~180-200°F)

- The entering air temperature is the highest anticipated ambient air temp, plus any pre-heating of the air prior to entering the cooler. Very important if air is drawn from engine compartment, etc.

STEP 3:

Calculate the adjusted BTU/MIN for selection

$$\text{BTU/MIN Heat Load} \times (100/\text{Desired ETD}) = \text{BTU/MIN for use with chart above}$$

STEP 4:

Select the model size from the curves

Select your oil flow rate from the bottom and find required heat rejection from step 3.

Select the model size that is on or above this point to meet these conditions.

SELECTING YOUR COOLER

If one of our standard models is right for your application, we can get it to you in as little as a week.

And with our in-house manufacturing and assembly, even custom coolers are ready when you need them.

SPECIFICATIONS

Size	Fan Diameter (in.)	Number of Fans	Current, A (12v/24v)	Approx. Weight (lbs.)
0.5	7.5	1	5.3 / 3.4	11
1.0	11	1	17 / 7.8	23
1.36	12	1	20.6 / 10.5	28
2.0	15	1	26.1 / 12.5	38
2.75	12	2	41.2 / 21	58
4.15	15	2	52.2 / 25	81

CUSTOM ORDERING

Create your own model code by choosing from our list of customization options.

1. MODEL SERIES

OCLV

2. MODEL SIZE

Tell us what size you need: _____ sq. ft.

3. DC FAN

Select from:

- 12S – 12V Suction Fan (Standard)
- 12B – 12V Blowing Fan
- 24S – 24V Suction Fan
- 24B – 24V Blowing Fan

*Blowing fan is not available for size 0.5.

4. TEMP SWITCH

Select from:

- Blank – No Switch
- TS120 – 120°F
- TS140 – 140°F

5. PRESSURE BYPASS

Select from:

- Blank – No Bypass
- 30 – 30 PSI
- 60 – 60 PSI

FINAL MODEL NUMBER:

OCLV – _____ – _____ – _____ – _____

1 2 3 4 5