





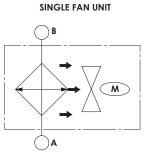
# THE NEXT GENERATION OF COOL

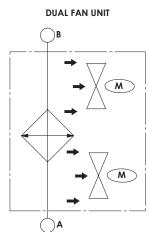


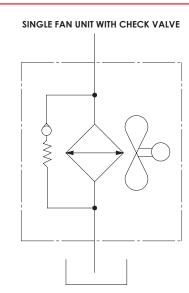
# COOLING THAT GETS THE JOB DONE

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

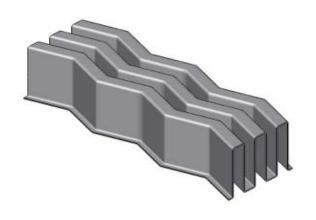








#### **SERIES HIGHLIGHTS**



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 check valve option Long motor lifetime up to 16,000 hours on most standard fans

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

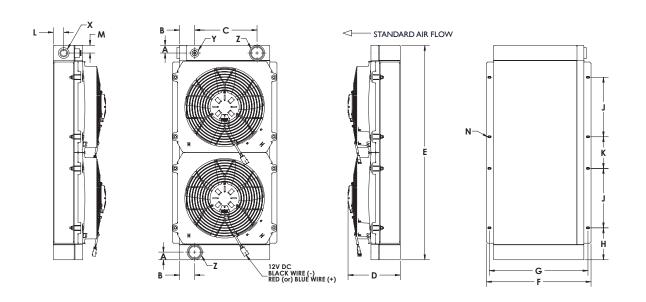
IP68 low-noise fans with waterproof connector

Made of non-corrosive materials



## (IEA)

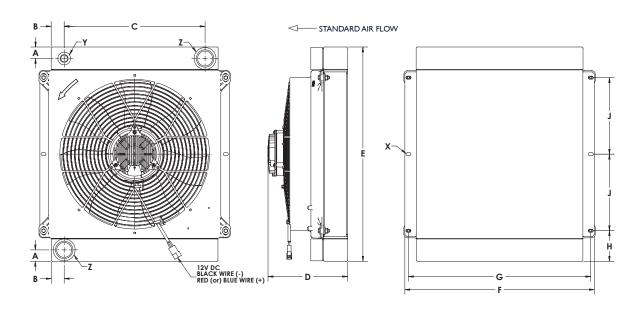
#### TWIN FAN



Γ	SIZE	Α	В	С	D	E	F	G	Н	J	K	Х	Υ	Z
Γ	4.15	1.18	1.32	14.49	8.93	39.96	19.49	18.74	3.44	15.75	1.57	.31 X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
	2.75	1.18	1.97	10.00	8.06	33.46	16.14	15.20	5.11	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

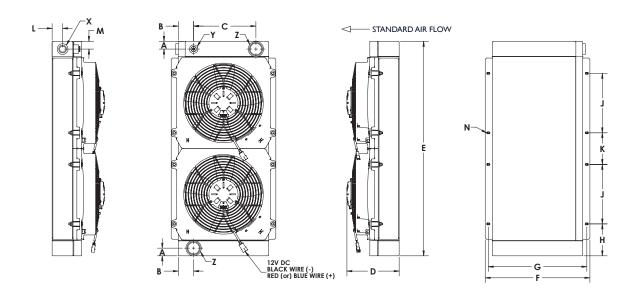
#### SINGLE FAN



	SIZE	Α	В	С	D	E	F	G	Н	J	Χ	Υ	Z
Γ	2.00	1.18	1.32	14.49	8.18	22.44	19.49	18.74	3.34	7.87	.31 X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
	1.36	1.18	1.97	10.00	7.31	19.17	16.06	15.20	5.19	4.59	.31 X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
	1.00	1.18	1.42	9.53	6.37	1 <i>7</i> .12	14.96	14.21	4.62	3.94	.31 X .51	3/4-16 UNF-2B (SAE #8)	1 5/8-12 UN-2B (SAE #20)
Ī	0.50	.83	1.02	5.51	6.26	13.58	9.53	8.78	3.63	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

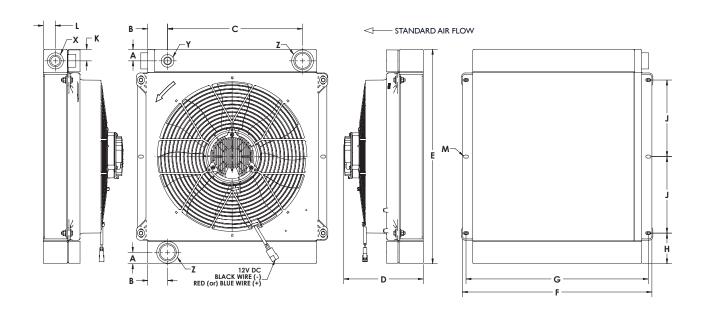
#### **BYPASS TWIN FAN**



SIZE	Α	В	С	D	E	F	G	Н	J	K	L	M	N		X		Υ	Z	
4.15	1.18	2.38	13.43	8.93	39.96	19.49	18.74	3.44	15.75	1.57	1.61	1.18	.31 X .51	1 5/16-12 UN	1-2B (SAE #16	3/4-16 UNF	-2B (SAE #8)	1 5/8-12 UN-2B (SAE #	20)
2.75	1.18	2.36	9.61	8.06	33.46	16.14	15.20	5.11	9.17	4.88	1.61	1.18	.31 X .51	1 5/16-12 UN	1-2B (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**



SIZE	Α	В	С	D	E	F	G	Н	J	K	L	1	M	X	Υ	Z
2.00	1.18	2.05	13.88	8.18	22.44	19.49	18.74	3.34	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)
1.36	1.18	2.09	10.00	7.31	19.17	16.06	15.20	5.19	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)
1.00	1.18	2.17	8.90	6.37	1 <i>7</i> .12	14.96	14.21	4.62	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)
0.50	.83	2.05	4.61	6.26	13.58	9.53	8.78	3.63	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

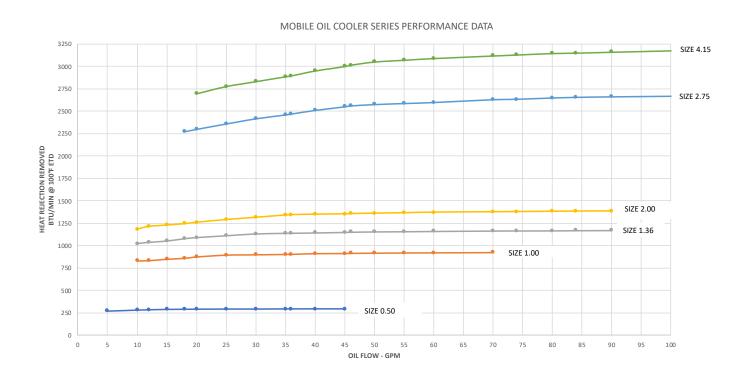
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# READY TO GET STARTED?

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 x 42.41 = BTU/MIN
STEP 2:	Determine actual ETD desired  ETD = Entering oil temperature (°F) – 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 BTU/MIN Heat Load X (100/Desired ETD) = 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**

Model Size, Sq. Ft.	Fan Diameter (in.)	Motor Voltage (DC)	Approx. Noise level dB(A) @1 m	Number of Fans	Current, A (12v/24v) per fan	Recommended Fuse per fan (A)	Approx. Weight (lbs.)
0.50	7.5	12/24	78		5.3/3.4	15/10	11
1.00		12/24	83		17/7.8	30/20	23
1.36	12	12/24	89		20.6/10.5	30/20	28
2.00	15	12/24	89		20.8/10.6	30/20	38
2.75	12	12/24	89	2	20.6/10.5	30/20	58
4.15	15	12/24	89	2	20.8/10.6	30/20	81

#### **CUSTOM ORDERING**

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

I. MODEL SERIES	2. MODEL SIZE  Tell us what size you need:	sq. ft.
B. DC FAN felect from:	4. TEMP SWITCH Select from:	5. PRESSURE CHECK VALVE Select from:
<ul> <li>12S – 12V Suction Fan (Standard)</li> <li>12B – 12V Blowing Fan</li> <li>24S – 24V Suction Fan</li> <li>24B – 24V Blowing Fan</li> </ul>	<ul><li>☐ Blank – No Switch</li><li>☐ TS120 – 120°F</li><li>☐ TS140 – 140°F</li></ul>	<ul> <li>■ Blank – No Check Valve</li> <li>■ 30 – 30 PSI</li> <li>■ 60 – 60 PSI</li> </ul>
Blowing fan is not available for size 0.50. FINAL MODEL NUMBER:	$\frac{OCLV}{1} - {2} - {}$	

If you are interested in an EMC filter or a soft start fan, contact your Sales Representative

Note: Heat transfer performance with pressure bypass is approximately 2-4% less due to available face area.