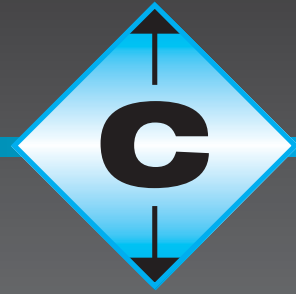


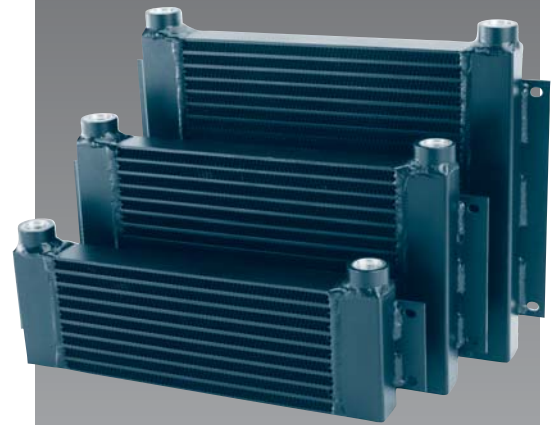


Oil Coolers

- ▶ World Class Advanced Technology Design
- ▶ Rugged Bar and Plate Construction Protects Against Fin Damage
- ▶ Competitive Pricing, Deliveries From Stock
- ▶ Leak Free SAE O-Ring Oil Connections, Mounting Included.
- ▶ C Series Models Available With Internal Pressure Bypass

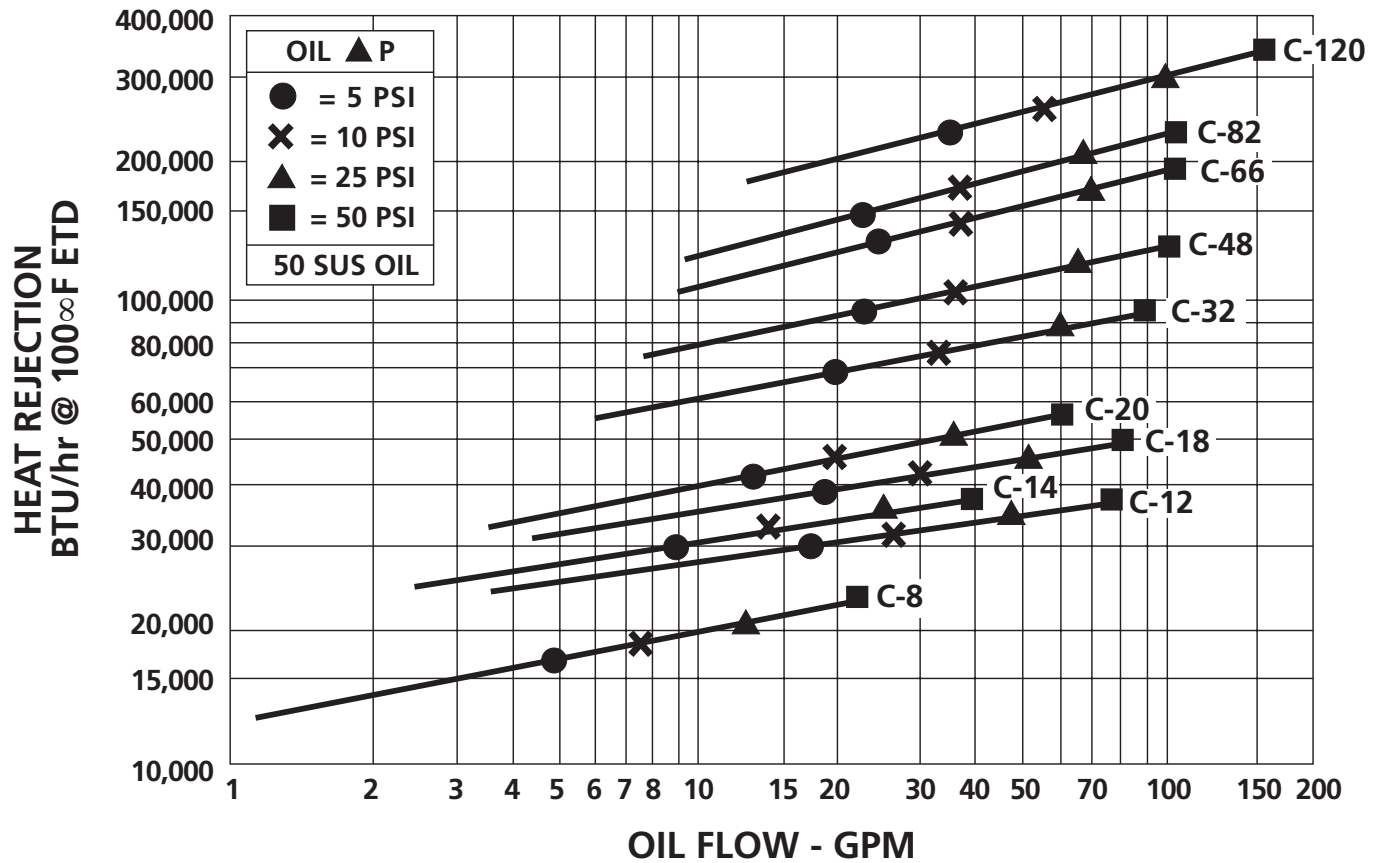


SERIES

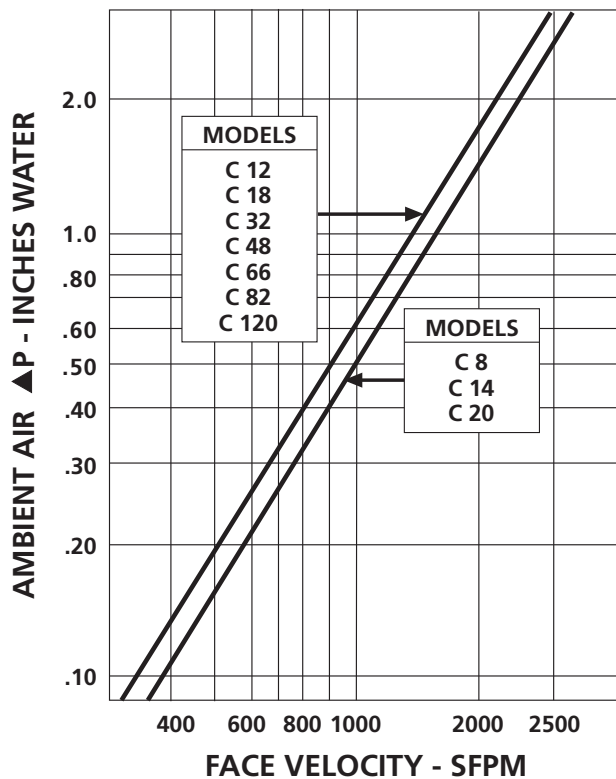


Performance

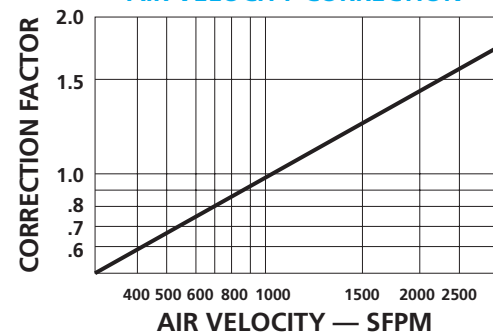
OIL COOLER PERFORMANCE



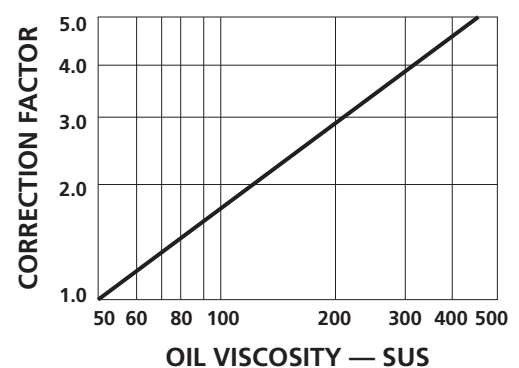
AIR STATIC PRESSURE DROP



AIR VELOCITY CORRECTION



OIL PRESSURE DROP CORRECTION



Selection Procedures

The performance curves above are based on the following:

- 1000 Standard Feet Per Minute (SFPM) Air Velocity.
- 100°F Entering Temperature Difference (ETD)

ETD = Entering **OIL** Temperature — Entering **AIR** Temperature
• 50 SUS Oil

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

STEP 1. Determine the Heat Load

$$\text{Horsepower Heat} \times 2545 = \text{BTU/hr}$$

STEP 2. Determine the Actual ETD Desired

$$\text{Entering Oil Temperature} - \text{Entering Air Temperature} = \text{ETD}$$

STEP 3. Find the Air Velocity Correction Factor

$$\frac{\text{SCFM Air Flow Across Cooler}}{\text{FT}^2 \text{ Cooler Face Area}} = \text{SFPM AIR VELOCITY}$$

Once you have calculated the SFPM Velocity, enter the air velocity correction curve to determine the correction factor.

STEP 4. Calculate the Adjusted BTU/hr for Selection

$$\text{BTU/hr Heat Load} \times \left(\frac{100}{\text{Desired Air ETD} \times \text{Velocity Correction Factor}} \right) = \text{BTU/hr For Use With Selection Chart}$$

STEP 5. Select The Model From The Curves

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

Features

▶ **ADVANCED TECHNOLOGY**
Design Provides High Heat Transfer Capacity in Very Compact Sizes

▶ **RUGGED**
Bar and Plate Construction

▶ **LOW FOULING**
Non-Louvered Fin System

▶ **WIDE SELECTION**
Of Standard Models Shipped from Stock

▶ **INTERNAL PRESSURE BYPASS AVAILABLE**

Specifications

MAXIMUM WORKING PRESSURE.....250 PSI

MAXIMUM WORKING TEMPERATURE.....250 °F

MATERIAL OF CONSTRUCTIONAluminum

Ordering Information

C SERIES

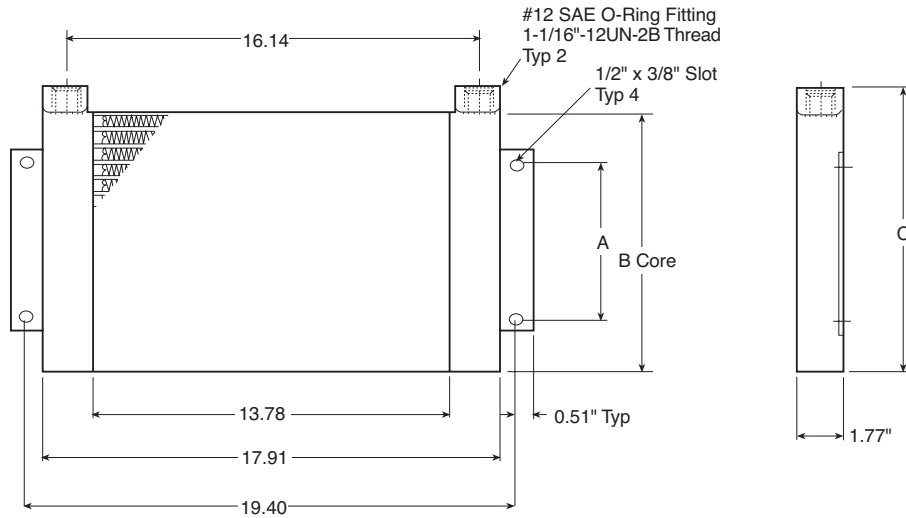
—

**MODEL SIZE
SELECTED**

—

**CUSTOM FEATURE
CODE**

Dimensions

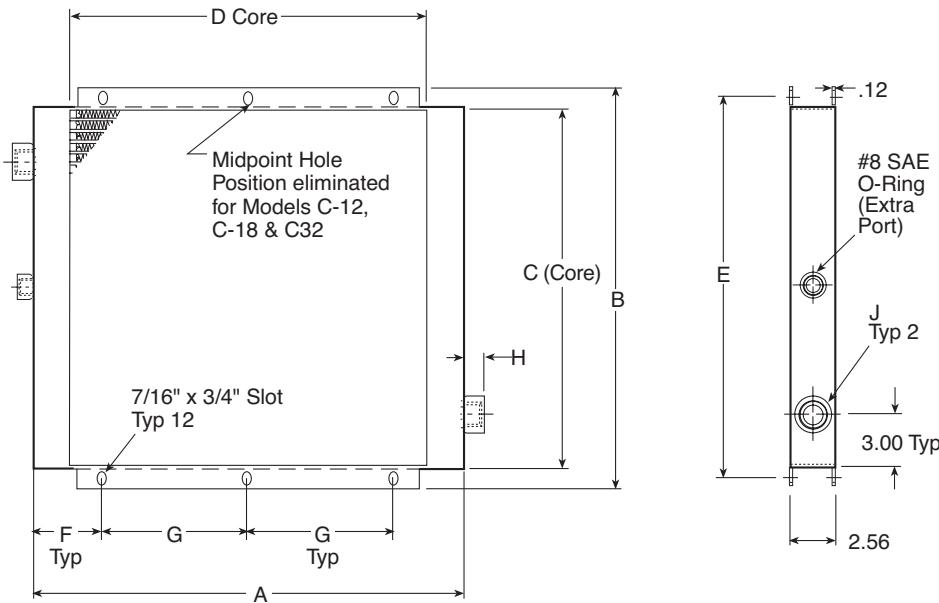


Note: All Dimensions are in Inches

Oil Ports may be reversed

We reserve the right to change dimensions without notice

Model Number	A	B	C	Weights in pounds	
				Net	Approx. Shipping
C-8	3.00	5.67	6.65	6.00	10.00
C-14	6.00	10.00	10.98	10.00	14.00
C-20	10.00	14.33	15.31	14.00	18.00



#12 SAE = 11/16"-12 UN-2B
 #20 SAE = 15/8"-12 UN-2B
 #16 SAE = 1 5/16"-12 UN-2B
 #24 SAE = 1 7/8"-12 UN-2B

Note: All Dimensions are in Inches

Oil Ports may be reversed

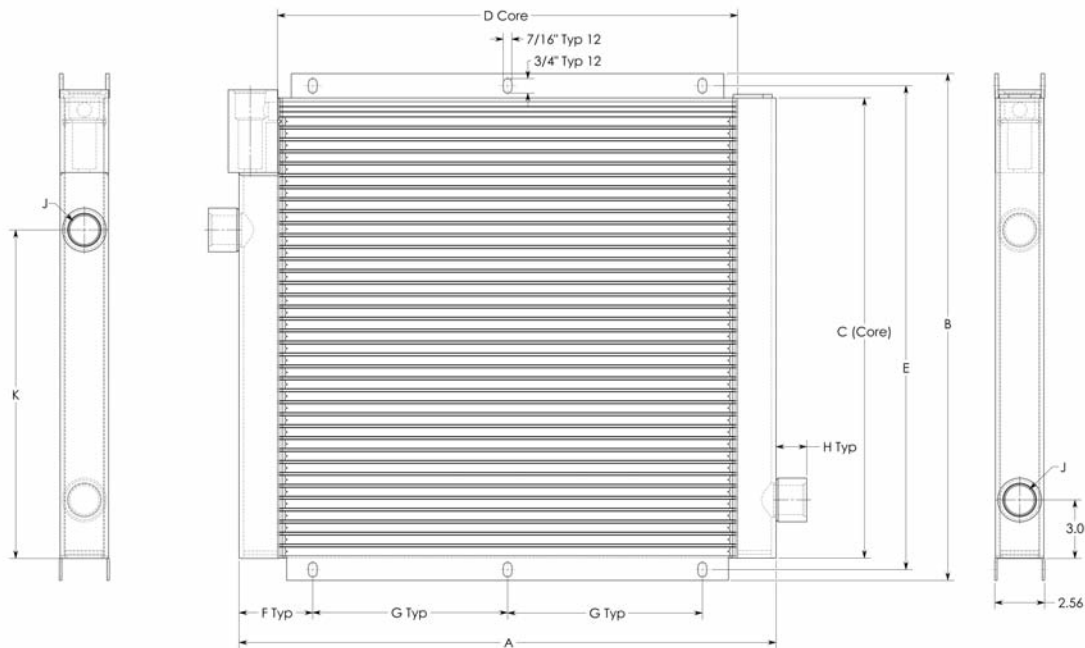
We reserve the right to change dimensions without notice

MODEL NUMBER	A	B	C	D	E	F	G	H	J	Weights in pounds	
										Net	Approx. Shipping
C-12	13.98	11.73	9.96	9.84	10.87	4.52	4.96	1.00	#12 SAE O-Ring	11.00	15.00
C-18	15.94	13.58	11.81	11.81	12.80	5.04	5.87			14.00	18.00
C-32	19.88	18.43	16.14	15.75	17.32	3.93	12.00	1.58	#20 SAE O-Ring	24.00	28.00
C-48	23.62	22.13	19.84	19.69	21.02	3.82	8.00			36.00	41.00
C-66	27.56	25.83	23.54	23.62	24.72	3.78	10.00		#24 SAE O-Ring	44.00	50.00
C-82	31.50	27.68	25.39	27.56	26.57	5.75				55.00	65.00
C-120		39.49	37.20		38.39					78.00	88.00

Note: #8 SAE Extra Port, Models: C-12, C-32 & C-48 only.

Dimensions

C Series with Bypass



MODEL NUMBER	A	B	C	D	E	F	G	H	J	K	Weight in lbs	
											Net	Approx. Ship
C-12	13.98	11.73	9.96	9.84	10.87	4.52	4.96	1.00	#12 SAE O-Ring	4.17	13.0	17.0
C-18	15.94	13.58	11.81	11.81	12.80	5.04	5.87	1.14	#16 SAE O-Ring	5.98	16.0	20.0
C-32	19.88	18.43	16.14	15.75	17.32	3.93	12.00	1.57	#20 SAE O-Ring	10.20	26.0	30.0
C-48	23.62	22.13	19.84	19.69	21.02	3.82	8.00	1.57	#20 SAE O-Ring	12.83	38.0	42.0
C-66	27.56	25.83	23.54	23.62	24.72	3.78	10.00	1.57	#20 SAE O-Ring	16.89	46.0	50.0
C-82	31.50	27.68	25.39	27.56	26.57	5.75	10.00	1.57	#24 SAE O-Ring	18.74	57.0	61.0
C-120	31.50	37.90	35.30	27.56	36.60	5.75	10.00	1.57	#24 SAE O-Ring	28.46	80.0	84.0

#12 SAE = 11/16" - 12 UN - 2B

#16 SAE = 1 5/16" - 12 UN - 2B

#20 SAE = 1 5/8" - 12 UN - 2B

#24 SAE = 1 7/8" - 12 UN - 2B

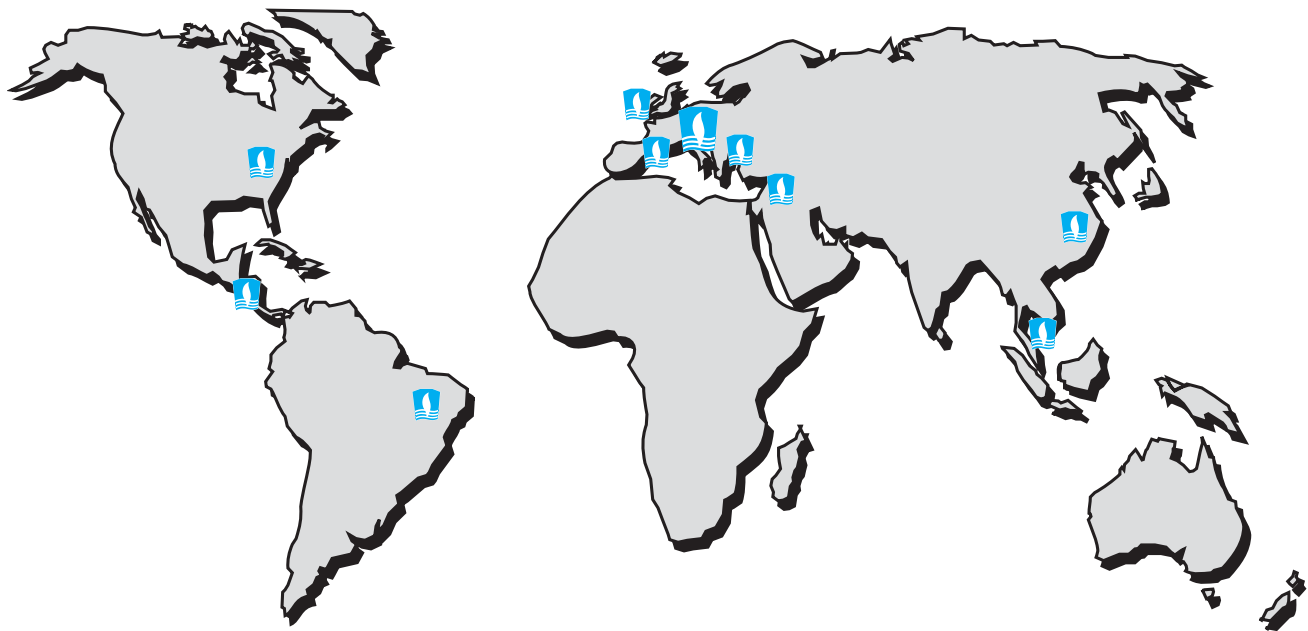
*Note: All dimensions in inches.

Note: #8 SAE Extra Port: Model C-12, C-18, C-32, C-48 only

Note: Midpoint Slot Hole position eliminated for Model C-12, C-18 and C-32

Ordering Information

	—		—		—	
C SERIES		MODEL SIZE		BYPASS DATA		OPTIONAL FEATURES
				BPV = Bypass No Valve		AD = SAE to NPT Adaptors Shipped W/Cooler
				BP25 = 25 PSI INT Bypass		H = Heresite Coating
				BP65 = 65 PSI INT Bypass		CRN = Canadian Registry, 250 PSI



AKG has been manufacturing high quality coolers and cooling systems since 1919. We have grown to include 10 facilities with over 1400 employees to serve you.

Your Business Partner



AKG Worldwide

AKG is a complete single source supply for all of your cooling requirements. Choose from both standard and custom engineered products depending on your specific needs.



Partnership

AKG believes in solid long-term business relationships built on partnerships with its customers.



Customer

AKG places heavy emphasis on development of leading edge technologies, products and finding creative solutions to our customers individual requirements.

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