CooL-Line
DS

DS SERIES FEATURES

- Tube and fin aluminum design
- Competitive pricing
- Premium quality
- Lightweight construction
- 12 VDC fan drive

PRODUCT HIGHLIGHTS

Standard Delivery 1-2 Weeks

No Fault Warranty Policy*

Less Cost of Ownership

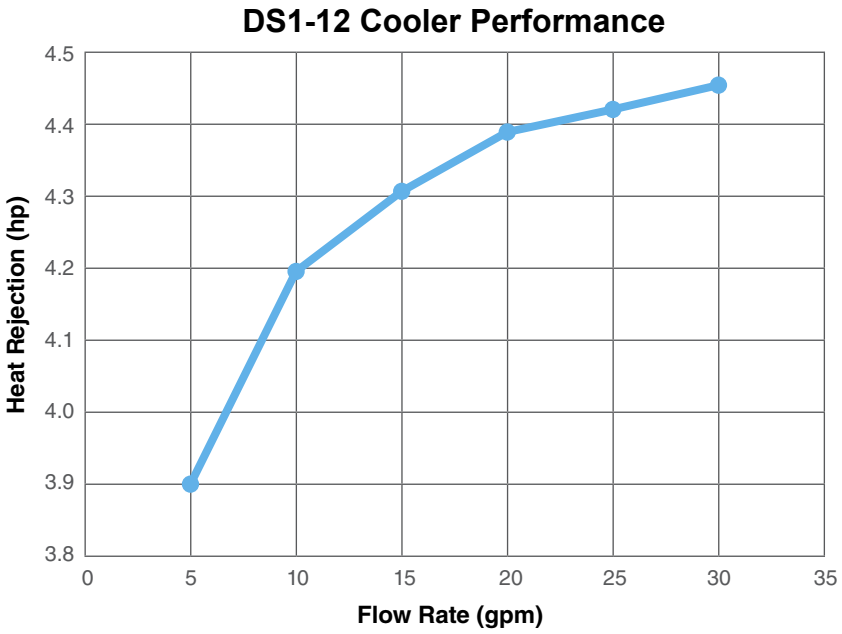
Multiple Porting Options

AKGcoolers.com

1 (805) 484-0049

Sales@AKGcoolers.com

PRODUCT PERFORMANCE



Pressure drop with ISO VG 46 oil at 10 gpm is less than 5 psig.
Performance is based on 85 F ETD.

DETERMINE THE HEAT LOAD

The Performance Curves are Based on the Following:
- 50 SUS Oil
- 50 °F Entering Temperature Difference (ETD)

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

STEP 1: Determine the Heat Load
In most cases you can use 1/3 of the input horsepower.
Example: 30 HP Power Unit = 10 HP Heat Load

STEP 2: Determine the Actual ETD Desired
Entering **OIL** Temperature - Entering **AIR** Temperature = **ETD**. The Entering oil temperature is the highest desired oil temperature. The entering air temperature is the highest anticipated ambient air temperature, plus any pre-heating of the air prior to it entering the cooler.

STEP 3: Calculate the Adjusted Btu/Hr for Selection

$$\text{Horsepower Heat Load} \times \frac{85}{\text{Desired ETD}} = \text{Horsepower For Use With Selection Chart}$$

STEP 4: Select the Model from the Curves
Read up from the GPM to the required heat rejection. Select any model on, or above this point.

SPECIFICATIONS

SPECIFICATION	
Maximum Working Pressure	232 psi
Maximum Working Temperature	250 °F

MATERIALS	
Cooler	Aluminum
Fan Blade	Nylon / GF
Shroud	Steel

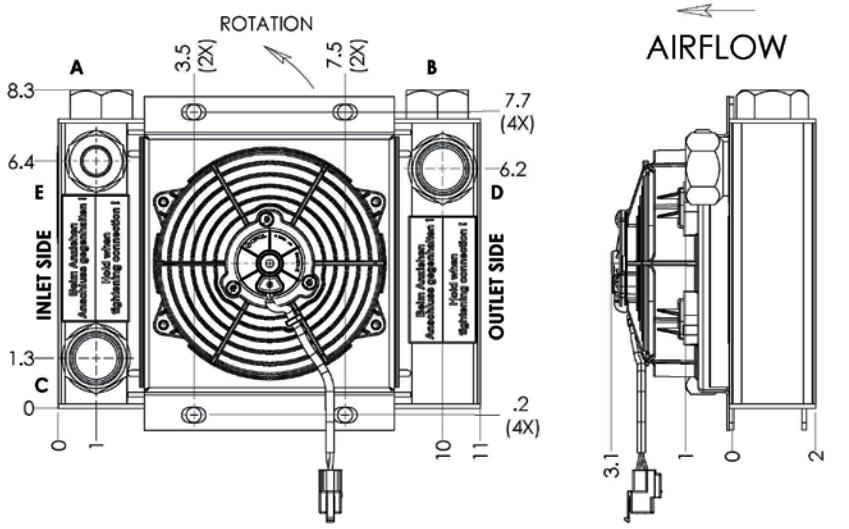
NOTES		
Normal Amp Draw 5.8A	Red Wire: + Black Wire: –	
Max Amp Draw (IN-RUSH): 18-25A	Max Oil Flow Rate: 50 GPM	
Recommended Fuse Rating: 7.5A	Cooler Volume: Approx. 0.26 Gallons	
Fan Connector Info: IP68 Water proof; DT06-2S Connectors Supplied (Mating Connector DT 04-2P Not Supplied)		Dry Weight: 5 LBS. Approx.
CAUTION: HOLD FITTING WHEN TIGHTENING THE HOSE CONNECTIONS		
PORT A, B, C, D -16 SAE ORB; PORT E -8 SAE ORB; MTG. SLOT: 0.4 IN		

APPLICATIONS

ORDERING INFORMATION

MODEL CODE:	MOTOR FRAME:	FEATURE OPTIONS:
DS1	12	AD = NPT adapters

ORDER EXAMPLE: DS1-12-AD (12V Puller Fan)



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print. All dimensions are in inches. Inlet and outlet side are reversible - please refer to the installation manual.