

# 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** 



## PRODUCT PERFORMANCE

# **DS1-12 Cooler Performance** 4.5 4.4 4.3 Heat Rejection (hp) 4.2 4.1 4.0 3.9 3.8 0 10 15 Flow Rate (gpm)

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

Horsepower Horsepower For Use Heat Load Desired ETD 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	

**APPLICATIONS** 

#### **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)

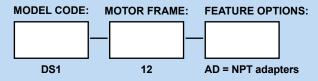
Dry Weight: 5 LBS. Approx.

#### **CAUTION: HOLD FITTING WHEN TIGHTENING THE HOSE CONNECTIONS**

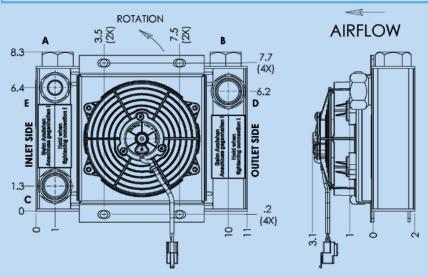
PORT A, B, C, D -16 SAE ORB; PORT E -8 SAE ORB; MTG. SLOT: 0.4 IN



### ORDERING INFORMATION



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.



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