

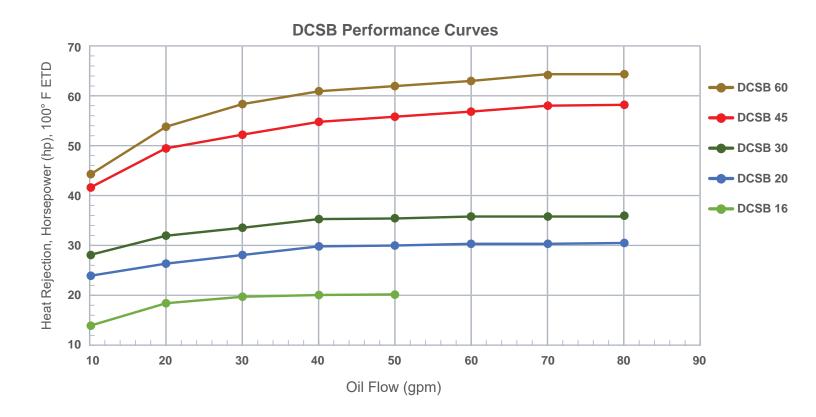
CooL-Line DCSB

DCSB SERIES FEATURES

- ☐ Bar and Plate brazed aluminum core
- Competitive pricing and assembles from stock
- Patented flexible profile for long life
- Product option—internal pressure bypass
- 12 and 24 Volt long life motors



STANDARD MODELS PERFORMANCE DATA



SELECTION PROCEDURES

THE PERFORMANCE CURVES ARE BASED ON THE FOLLOWING:

- 50 SUS Oil
- 100 °F Entering Temperature Difference (ETD)
- If your application conditions are different, use the following selection procedure:

STEP 1: DETERMINE HEAT LOAD Horsepower Heat x 2545 = BTU/hr

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 its entering the cooler. This is especially important if air is drawn from the engine compartment for cooling.

STEP 3: CALCULATE THE ADJUSTED BTU/HR FOR SELECTION

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.

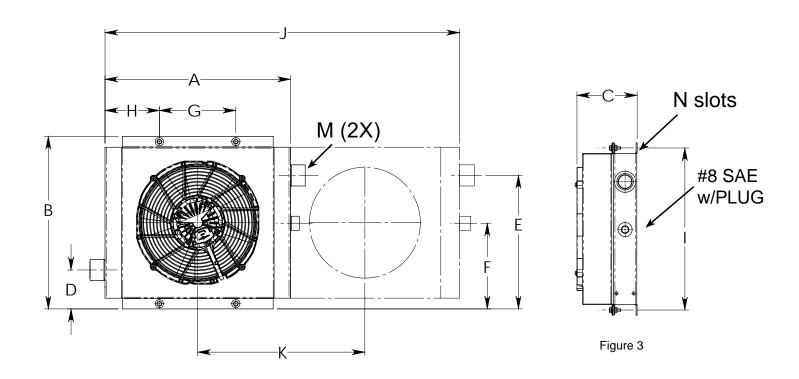
A CooL-Line Selection Software, which is available free of charge will guide you through the cooler model selection process in simple steps and will recommend the optimal AKG cooling package for your application: www.akgts.com

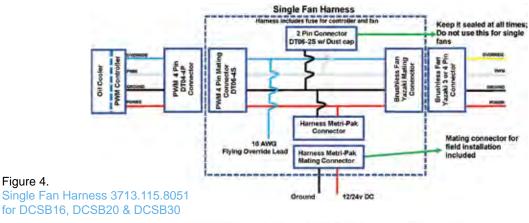
DCSB SERIES TECHNICAL DATA

Model Number	Motor Voltage (V)	Number of Fans	Approx. Noise Level (dB(A), 1M)	Recommended Fuse Value per Fan (A)	Approx. Shipping Weight	Cooler Volume (gal)
DCSB16	12/24	1	79	40	25	0.5
DCSB20	12/24	1	79	30	31	0.7
DCSB30	12/24	1	79	30	53	1.0
DCSB45	12/24	2	79	30	67	1.0
DCSB60	12/24	2	79	30	111	1.2

DCSB SERIES DIMENSIONS

Model Number	А	В	С	D	Е	F	G	Н	1	J	K	M	N
DCSB16	15.7	13.5	7.4	3.9	9.6	5.2	5.9	4.9	12.7	-	-	#16 SAE O-ring	5/16" X 1/2" slot
DCSB20	19.6	18.3	6.3	4.1	14.2	9.2	8.1	5.7	17.2	-	-	#20 SAE O-ring	5/16" X 1/2" slot
DCSB30	26.3	22.0	6.3	4.1	17.9	10.9	15.9	3.8	20.9	-	-	#20 SAE O-ring	7/16" X 3/4" slot
DCSB45	-	18.3	6.3	4.1	14.2	9.2	7.9	4.9	17.2	33.4	14.8	#20 SAE O-ring	7/16" X 3/4" slot
DCSB60	-	22.0	6.3	4.1	17.9	11.0	8.8	4.4	20.9	35.4	15.4	#20 SAE O-ring	7/16" X 3/4" slot





Dual Fan Harness Schematic 12/24v DC _____ Single Fan Harr 2 Pin Connector DT96-2S w/ Dust ca **Dual Fan Harness** Harness Metri-Pa Connector field installation Dual Fan Harness 3713.115.8052 for DCSB45 & DCSB60 12/24v DC

Rated Voltage: 9-16 for 12VDC// 16-32 for 24VDC

Maximum temperature Rating 239° F

Yazaki Female Housing Connector - Supplied

Yazaki Mating Connector: #30130628 - Not Included

Wire: Red+, Black-, White PWM Input; Blue

Override

Figure 5.

Hardware: Low Side Drive / Software: Active High

Manual Override Option Included (Blue wire) Allows The Fan To Run Constantly. Leave Override Disconnected While Using PWM.

Do not remove dust caps from fuse: Splice box in harness

PWM Controller Part No: 3713 115 8050

Consult Factory For Other Configurations

ORDERING INFORMATION

DCSB

DCSB SERIES MODEL SIZE **MOTOR DATA** BY PASS DATA **FEATURE OPTIONS CUSTOM FEATURE** Standard Select AD = SAE to NPT Adapters 12 = 12Volt BP25 = 25 psi Internal By Pass -16 X = No Harness or -20 24 = 24 Volt BP65 = 65 psi Internal By Pass **PWM Controller** H = Heresite Coated Core -30 1 = Wiring Harness 2 = PWM Controller -45 -60 3 = Wiring Harness and **PWM Controller**

ORDER EXAMPLE: 30 hp heat rejection with 12 VDC Brushless fan drive with 65-psi internal check valve a including wiring harness and PWM controller

DCSB30-12-BP65-2

OIL-TO-AIR COOLING SYSTEMS WITH BRUSHLESS DC-FAN DRIVE

PRODUCT INFORMATION

AKG Cool-Line is standard line of products from the market leader in high performance aluminum cooling systems. AKG is best known for its worldwide presence, German engineering, reliable product quality and very competitive prices.

The CooL-Line models embraces an all-purpose complete cooling systems that is suited for rugged environmental operating conditions.

All of AKG's solutions have been developed with state-of-the-art technology, produced in compliance with the highest quality standards and are comprehensively tested.

BENEFITS

- Largest and most comprehensive series of mobile hydraulic coolers
- Highly flexible complete, ready-to-use cooling packages
- Compact and robust design, field-tested during many years of use in rugged real life conditions
- Best heat transfer results per given cooler size due to comprehensive research and development
- Highest quality due to professional engineering and inhouse manufacturing
- Available from stock or at short lead-time
- Standard equipped with anti-clogging cooling air fins

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FEAT	
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- High-Performance cooling assemblies
- Maintain consistent oil viscosity
- The heat is transferred from the medium to be cooled to the ambient air
- Cooler can be universally used in hydraulic oil, transmission oil, engine oil, lubricating oil and coolant circuits
- Fans are IP69K rated
- 40,000 hour fan life

SPECIFICATION					
Maximum Working Pressure	377 psi				
Maximum Working Temperature	250 °F				

MATERIALS				
Cooler	Aluminum			
Fan Blade	Nylon / GF			
Shroud	Steel			



