

**RADIATOR PERFORMANCE DATA [LF3426]**

**DECEMBER 07, 2020**

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Component Performance Number: EM2496

**Radiator Data**

Radiator Part Number: 5168951

Radiator Type: AF69AVS

Front Area: 69.00 ft2

Radiator Dry Weight: 8,377.6 lbs

Radiator Wet Weight: 8,884.6 lbs

Radiator Water Capacity High Temp Circuit: 53.0 gal

Radiator Water Capacity Low Temp Circuit: NA gal

Center of Gravity (X): 31.85 in (Distance from front face of core)

Center of Gravity (Y): 47.24 in (Distance from bottom of radiator support)

Center of Gravity (Z): 1.57 in (Distance from center line of core)

**Engine Data**

Performance Number: EM2116

Sales Model: 3516

EKW: 2750

Rating: MCSTNDBY

Speed: 1800

Settings: NA

IM ATAAC Temp Deg F: 122

**Combination Data**

Pully Ratio: 0.444

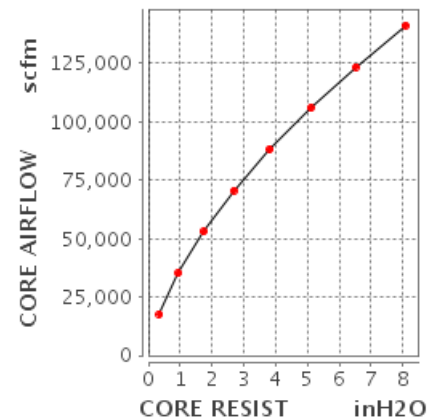
Fan Power: 154.2173 hp

Ambient Restrictions (1/2 inH2O)			Ambient Restrictions (3/4 inH2O)			Ambient Restrictions (1.00 inH2O)		
984 Feet	2460 Feet	4921 Feet	984 Feet	2460 Feet	4921 Feet	984 Feet	2460 Feet	4921 Feet
113	109	102	111	107	100	NA	NA	NA

----- Max Ambient Pre-alarm Deg F -----

Air Flow Restrictions (1/2 inH2O)	Air Flow Restrictions (3/4 inH2O)	Air Flow Restrictions (1.00 inH2O)
106862	105025	NA

CORE RESIST inH2O	CORE AIRFLOW scfm
0.35	17,657.35
0.94	35,314.7
1.73	52,972.05
2.69	70,629.4
3.82	88,286.75
5.1	105,944.1
6.52	123,601.45
8.08	141,258.8



**Reference**

Number: EM2496

No notes found...

**Parameters**

Reference: TM6016

## RADIATOR CORE DATA:

FOR OPEN GENERATOR SET ELECTRIC POWER APPLICATIONS, CORE AIR FLOW RESISTANCE DATA INCLUDES ENGINE, GENERATOR, AND COOLING PACKAGE. ADDITIONAL AIRFLOW RESISTANCE DUE TO CUSTOMER SUPPLIED ITEMS SUCH AS INLET/EXHAUST LOUVERS, SOUND ATTENUATION, OR INLET/EXHAUST AIR PIPEWORK IS NOT INCLUDED.

ALL OTHER APPLICATIONS OUTSIDE OF OPEN ELECTRIC POWER, CORE AIR FLOW RESISTANCE IS FOR FREE STANDING CORE ONLY.

CORE PERFORMANCE DATA IS BASED ON AN AIR DENSITY OF 1.20 KG/M3 (0.075 LB/CU FT)

## AMBIENT CAPABILITY:

AMBIENT CAPABILITY AND ALTITUDE CAPABILITY LISTED ON THIS PAGE REFLECTS THE CAPABILITY OF THE COOLING SYSTEM AT THE MAXIMUM GENERATOR RATING. AMBIENT CAPABILITY FOR STANDBY AND MISSION CRITICAL STANDBY RATINGS REPORTED AGAINST A JACKET WATER ENGINE EXIT TEMPERATURE LIMIT OF 104C (219F). ALL OTHER RATINGS REPORTED AT 99C (210F).

AMBIENT AND ALTITUDE CAPABILITY MUST BE VERIFIED FOR THE ENGINE AND GENERATOR IN THE ENGINE PERFORMANCE SECTION OF TMI.

NON TIER 4 EMISSION RATINGS ASSUME 4C (7F) AIR TO CORE RISE, TIER 4 EMISSION RATINGS ASSUME 6C (9F).

ALL PERFORMANCE SHOWN WITH 50/50 GLYCOL COOLANT.

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