4/29/2020 Core Display

RADIATOR PERFORMANCE DATA

APRIL 29, 2020

For Help Desk Phone Numbers Click here

Component Performance Number: EM1959

Radiator DataEngine DataCombination DataRadiator Part Number: 5090777Performance Number: EM1787 Pully Ratio: 0.507

Radiator Type: ASF44.0CV Sales Model: 3512 Fan Power: 108.62262 hp

Front Area: 44.02 ft2 **EKW:** 1750

Radiator Dry Weight: 4,109.4 lbs Rating: STANDBY

Radiator Wet Weight: 4,539.3 lbs Speed: 1800
Radiator Water Capacity High Temp Circuit: 53.0 gal Settings: NA

Radiator Water Capacity Low Temp Circuit: NA gal IM ATAAC Temp Deg F: 122

Center of Gravity (X): 25.00 in (Distance from front face of core)

Center of Gravity (Y): 41.73 in (Distance from bottom of radiator support)

Center of Gravity (Z): 0.68 in (Distance from center line of core)

Ambient Restrictions (1/2 inH2O)			Ambient Restrictions (3/4 inH2O)			Air Flow Restrictions (1/2 inH2O)	Air Flow	
984 Feet	2460 Feet	4921 Feet	984 Feet	2460 Feet	4921 Feet	Restrictions (1/2 mili20)	Restrictions (5/4 mili20)	
Max Ambient Pre-alarm Deg F						scfm		
120	114	107	116	113	104	91606	87509	

No Graph data available...

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Reference

Number: EM1959

No notes found...

Parameters

RADIATOR CORE DATA

Reference: TM6016

CONDITIONS:

CORE AIR FLOW RESISTANCE DATA IS FOR A FREE STANDING CORE ONLY. ADDITIONAL AIR FLOW RESISTANCE DUE TO SHROUDS, DUCTING, COOLERS AND ENGINE COMPONENTS MUST BE ADDED IN ORDER TO CALCULATE TOTAL SYSTEM PERFORMANCE.

CORE PERFORMANCE DATA IS BASED ON AN AIR DENSITY OF 1.20 KG/M3 (.075 LB/CU FT).

AMBIENT CAPABILITY:

THE AMBIENT CAPABILITY AND ALTITUDE CAPABILITY LISTED ON THIS PAGE REFLECTS THE THE CAPABILITY OF THE COOLING SYSTEM AT THE MAXIMUM GENERATOR SET RATING. THE AMBIENT AND ALTITUDE CAPABILITY MUST BE VERIFIED FOR THE ENGINE AND GENERATOR IN THE ENGINE PERFORMANCE SECTION OF TMI. NON-TIER 4 AMBIENT CAPABILITY CALCULATIONS ARE BASED ON A 50/50 GLYCOL COOLANT MIX AND 4°C (7°F) AIR TO CORE RISE. TIER 4 AMBIENT CAPABILITY CALCULATIONS ARE BASED ON A 50/50 GLYCOL COOLANT MIX AND 6°C (9°F) AIR TO CORE RISE. ASSUME 3°C ADDITIONAL AMBIENT CAPABILITY WITH TREATED WATER INSTEAD OF 50/50 GLYCOL AS COOLANT. THE CORE AIRFLOW VS CORE RESISTANCE CHARTS REPRESENT CORE ONLY DATA. ALL OTHER DATA IS FOR THE COMPLETE PACKAGE.

LAST UPDATED: 05/13/2010

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Content Owner: Commercial Processes Division Web Master(s): <u>PSG Web Based Systems Support</u>

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