RADIATOR PERFORMANCE DATA

APRIL 29, 2020

For Help Desk Phone Numbers Click here

Component Performance Number: EM1958

Radiator Data

Radiator Part Number: 5090776
Radiator Type: ASF44.0CV
Front Area: 44.02 ft2
Radiator Dry Weight: 4,109.4 lbs
Radiator Wet Weight: 4,539.3 lbs
Radiator Water Capacity High Temp Circuit: 53.0 gal
Radiator Water Capacity Low Temp Circuit: NA gal

Engine Data

Performance Number: EM1787
Sales Model: 3512
EKW: 1750
Rating: STANDBY
Speed: 1800
Settings: NA
IM ATAAC Temp Deg F: 122

Combination Data

Pully Ratio: 0.453
Fan Power: 84.48426 hp

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)		
984 Feet	2460 Feet	4921 Feet	984 Feet	2460 Feet	4921 Feet
--------- Max Ambient Pre-alarm Deg F ---------					
107	102	91	102	95	84

Air Flow Restrictions (1/2 inH2O)	Air Flow Restrictions (3/4 inH2O)
--------- scfm ---------	
73278	68863

No Graph data available...

Reference Number: EM1958

No notes found...

Parameters Reference: TM6016

RADIATOR CORE DATA

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
