

RADIATOR PERFORMANCE DATA

AUGUST 25, 2020

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Component Performance Number: DM9791

Radiator Data

Radiator Part Number: 2862499

Radiator Type: A7.45CTS

Front Area: 7.00 ft²

Radiator Dry Weight: 141.1 lbs

Radiator Wet Weight: NA lbs

Radiator Water Capacity High Temp Circuit: 7.0 gal

Radiator Water Capacity Low Temp Circuit: NA gal

Center of Gravity (X): 6.42 in (Distance from front face of core)

Center of Gravity (Y): 23.03 in (Distance from bottom of radiator support)

Center of Gravity (Z): 0.00 in (Distance from center line of core)

Engine Data

Performance Number: P4364A

Sales Model: C7.1 DITA

EKW: 200

Rating: STANDBY

Speed: 1800

Settings: NA

IM ATAAC Temp Deg F: 113

Combination Data

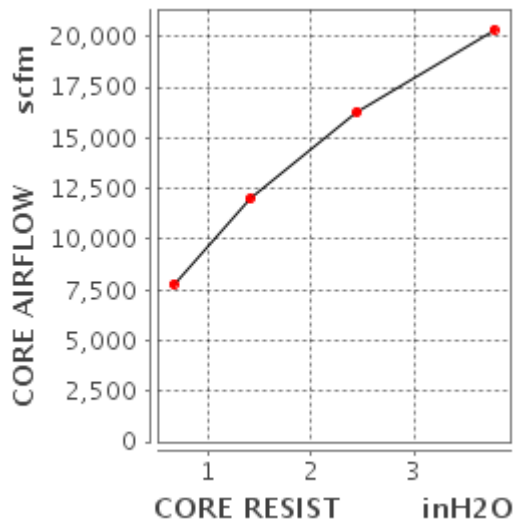
Pully Ratio: 1.25

Fan Power: 16.09224 hp

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 -----					
131	125	118	127	122	114

Air Flow Restrictions (1/2 inH2O)		Air Flow Restrictions (3/4 inH2O)	
----- scfm -----			
13137		12289	

CORE RESIST inH2O	CORE AIRFLOW scfm
0.66	7,776.3
1.4	11,992.87
2.44	16,273.01
3.77	20,341.27



Reference**Number:** DM9791

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

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Content Owner: Commercial Processes Division

Web Master(s): [PSG Web Based Systems Support](#)

Current Date: 8/25/2020, 8:57:35 AM

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