

**RADIATOR PERFORMANCE DATA**

**SEPTEMBER 21, 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: P4378A  
 Sales Model: C7.1 DITA  
 EKW: 175  
 Rating: STANDBY  
 Speed: 1800  
 Settings: NA  
 IM ATAAC Temp Deg F: 131

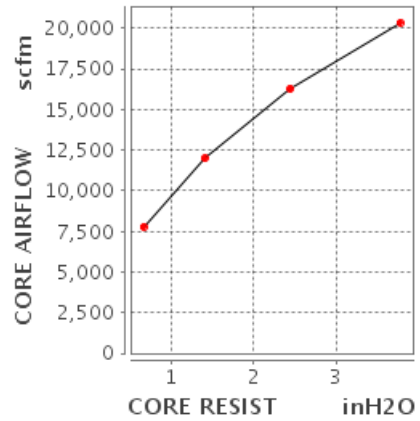
**Combination Data**

Pully Ratio: 1.25  
 Fan Power: 0.0 hp

Ambient Restrictions (1/2 inH2O)			Ambient Restrictions (3/4 inH2O)		
984	2460	4921	984	2460	4921
Feet	Feet	Feet	Feet	Feet	Feet
----- Max Ambient Pre-alarm Deg F -----					
134	129	122	132	127	120

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:

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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