

RADIATOR PERFORMANCE DATA

SEPTEMBER 21, 2020

For Help Desk Phone Numbers [Click here](#)

Component Performance Number: DM9790

Radiator Data

Radiator Part Number: 2785979

Radiator Type: A5.97CTS

Front Area: 5.92 ft²

Radiator Dry Weight: 119.0 lbs

Radiator Wet Weight: 145.5 lbs

Radiator Water Capacity High Temp Circuit: 5.0 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): 21.26 in (Distance from bottom of radiator support)

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

Engine Data

Performance Number: P4390A

Sales Model: C7.1 DITA

EKW: 150

Rating: STANDBY

Speed: 1800

Settings: NA

IM ATAAC Temp Deg F: 131

Combination Data

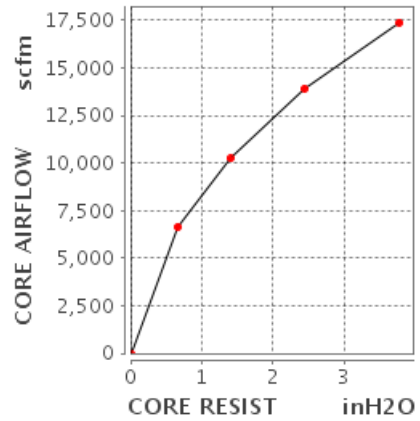
Pully Ratio: 1.25

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 -----					
131	125	118	127	122	114

Air Flow Restrictions (1/2 inH2O)		Air Flow Restrictions (3/4 inH2O)	
----- scfm -----			
10629		10170	

CORE RESIST inH2O	CORE AIRFLOW scfm
0	0
0.66	6,632.1
1.4	10,234.2
2.44	13,899.87
3.77	17,374.83



Reference

Number: DM9790

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.

LAST UPDATED: 09/11/2020

Caterpillar Confidential: **Green**

Content Owner: Commercial Processes Division

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

Current Date: 9/21/2020, 2:35:34 PM

© Caterpillar Inc. 2020 All Rights Reserved.

[Data Privacy Statement](#).