

RADIATOR PERFORMANCE DATA

NOVEMBER 10, 2021

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

Component Performance Number: DM7717

Radiator Data

Radiator Part Number: 2140588
 Radiator Type: AS18.8CT
 Front Area: 18.84 ft²
 Radiator Dry Weight: 407.9 lbs
 Radiator Wet Weight: NA lbs
 Radiator Water Capacity High Temp Circuit: 16.0 gal
 Radiator Water Capacity Low Temp Circuit: NA gal
 Center of Gravity (X): 4.06 in (Distance from front face of core)
 Center of Gravity (Y): 34.45 in (Distance from bottom of radiator support)
 Center of Gravity (Z): 0.00 in (Distance from center line of core)

Engine Data

Performance Number: DM8517
 Sales Model: C18
 EKW: 550
 Rating: STANDBY
 Speed: 1800
 Settings: NA
 IM ATAAC Temp Deg F: 120

Combination Data

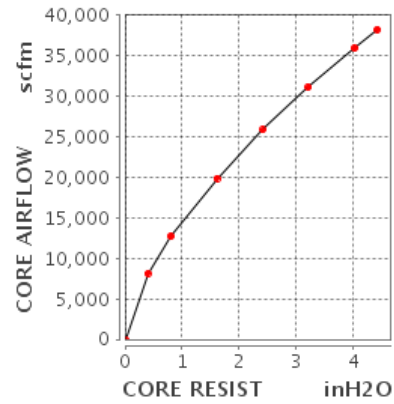
Pully Ratio: 0.8
 Fan Power: 20.1153 hp

Ambient Restrictions (1/2 inH2O)			Ambient Restrictions (3/4 inH2O)			Ambient Restrictions (1.00 inH2O)		
984 Feet	2460 Feet	4921 Feet	984 Feet	2460 Feet	4921 Feet	984 Feet	2460 Feet	4921 Feet
122	114	109	118	111	105	NA	NA	NA

----- Max Ambient Pre-alarm Deg F -----

Air Flow Restrictions (1/2 inH2O)	Air Flow Restrictions (3/4 inH2O)	Air Flow Restrictions (1.00 inH2O)
28393	27969	NA

CORE RESIST inH2O	CORE AIRFLOW scfm
0	0
0.4	8,118.85
0.8	12,702.7
1.61	19,882.18
2.41	25,836.23
3.21	31,115.78
4.02	35,943.3
4.42	38,228.16



Reference
Number: DM7717

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: 11/10/2021, 2:19:35 PM
© Caterpillar Inc. 2021 All Rights Reserved.
[Data Privacy Statement](#).