

RADIATOR PERFORMANCE DATA

NOVEMBER 10, 2021

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Component Performance Number: DM9563

Radiator Data

Radiator Part Number: 3492574
 Radiator Type: A25.5CT
 Front Area: 25.51 ft²
 Radiator Dry Weight: 800.3 lbs
 Radiator Wet Weight: NA lbs
 Radiator Water Capacity High Temp Circuit: 27.0 gal
 Radiator Water Capacity Low Temp Circuit: NA gal
 Center of Gravity (X): 4.22 in (Distance from front face of core)
 Center of Gravity (Y): 34.35 in (Distance from bottom of radiator support)
 Center of Gravity (Z): 0.25 in (Distance from center line of core)

Engine Data

Performance Number: DM7696
 Sales Model: C27
 EKW: 800
 Rating: STANDBY
 Speed: 1800
 Settings: NA
 AC Temp Deg F: 120

Combination Data

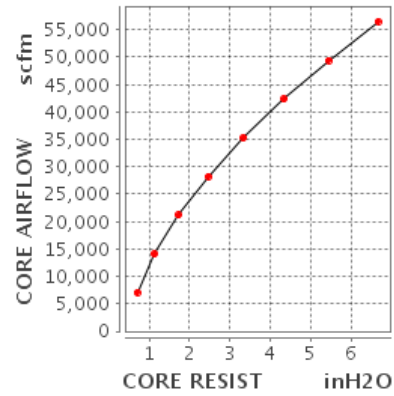
Pully Ratio: 0.681
 Fan Power: 65.70998 hp

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
138	136	131	136	132	127	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)
40152	38457	NA

CORE RESIST inH2O	CORE AIRFLOW scfm
0.7	7,062.94
1.13	14,125.88
1.72	21,188.82
2.47	28,251.76
3.34	35,314.7
4.34	42,377.64
5.45	49,440.58
6.67	56,503.52



Reference
Number: DM9563

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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