

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

E-267
Revision 11
CONTINENTAL
E225-2, -4, -8, -9

November 1, 2011

TYPE CERTIFICATE DATA SHEET NO. E-267

Engines of models described herein conforming with this data sheet (which is part of type certificate No. 267) and other approved data on file with the Federal Aviation Agency meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Civil Air Regulations provided they are installed, operated and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder Continental Motors
P.O. Box 90
Mobile, Alabama 36601

Type Certificate Holder Record Teledyne Continental Motors
Ownership & name change as of April 19, 2011 (Continental Motors, Inc.)

Model	E225-2	E225-4	E225-8	E225-9
Type	6H0	--	--	--
Rating, ICAO or ARDC standard atmosphere				
Max. continuous hp., r.p.m., full throttle at sea level pressure altitude	225-2650	--	--	--
Takeoff hp., 5 min., r.p.m. full throttle at sea level pressure altitude	225-2650	--	--	--
Fuel (min. grade aviation gasoline)	80/87	--	--	--
Lubricating oil				
Ambient air temperature	Oil grade			
Above 40°F.	SAE 50	--	--	--
Below 40°F.	SAE 30	--	--	--
Bore and stroke, in.	5.00 x 4.00	--	--	--
Displacement, cu. in.	471	--	--	--
Compression ratio	7:1	--	--	--
Weight (dry), lb.	359	355	347	363
C.G. location (basic engine)				
Fwd. of rear face engine crankcase, in.	11.75	11.51	11.75	11.51
Below crankshaft centerline, in.	1.42	1.76	1.42	1.76
Propeller shaft, SAE No.	20 (Spline)	--	--	--
Carburetion	Bendix-Stromberg Model PS5C (CMI/TCM/CMC No. 531857)	--	--	--
Ignition, dual magnetos	CMI/TCM/Bendix-Scintilla S6LN-21 or S6LSC-21 or 1 ea. S6LN-200 and -204	--	--	--
Timing, °BTC	Right 26°, Left 26°	--	--	--
Spark plugs	See NOTE 7	--	--	--
Oil sump capacity, qt.	Dry	10 (7 usable)	Dry	10 (7 usable)
NOTES	1,2,3,4,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,6,7
"- -" indicates "same as preceding model"				

Certification basis CAR 13 effective August 1, 1949
Type Certificate No. 267 issued July 12, 1950 for Model E225-8; E225-9 added October 30, 1950;
E225-2 added July 19, 1951; E225-4 added June 5, 1952.
Date of Application for Type Certificate June 2, 1950.

Production basis Production Certificates Nos. 7 and 508.

Page No.	1	2
Rev. No.	11	11

NOTE 1. Maximum permissible temperatures

Cylinder head 525°F. (spark plug gasket), 450°F. (well type thermocouple, downdraft cooling only)
 Cylinder barrel 290°F.
 Oil inlet 225°F.

NOTE 2. Fuel inlet pressure limit 9 to 15 p.s.i.
 Oil pressure limits (normal operation) 30 to 60 p.s.i. Maximum (cold oil) 100 p.s.i.

NOTE 3. Accessories such as generators, starters, fuel and vacuum pumps, etc., previously listed in NOTE 3, are satisfactory for continued use with these engines. As these are not integral engine accessories, they are not evaluated for approval during engine certification testing. The airworthiness of such accessories is substantiated during aircraft installation system approvals. The suitability of the accessory to the engine mounting provisions as described below, must be determined when processing such approvals.

Accessory	Type of Drive	Direction of Rotation	Speed Ratio to Crankshaft	Max. Torque (in. -lb.)		Maximum Overhang
				Continuous	Static	Moment (in. -lb)
Generator	Automotive	CC	2.25:1	60	800	100
Starter	Aircraft	CC	1.15:1		2400	
Fuel Pump	AND 10000	CC	1.67:1	26	400	25
Tachometer	AS 54	C	0.5:1			
Optional	AND 10000	C	1.364:1	90	600	65

NOTE 4. The cylinder assemblies on the E225-2 and -9 models have increased cooling fin areas and increased overall length over the cylinders on the -4 and -8 models.

NOTE 5. E225-4 and -8 engines with S/N 30,001 thru 30,086 have two each 6th order dampers.
 Engines with S/N 30,087 and above have one each 5th and 6th order dampers.

NOTE 6. E225 series engines are eligible for both tractor and pusher installations.

NOTE 7. The following spark plugs and/or those listed in CMI Service Information Letter SIL03-2 are approved on this engine:

AC HSR83IR, SR83IR, HSR83P, SR83P, A88, HS88, HSR88, SR88, S88, SR88D, S88D
 Auto Lite H15, SH15, SH15R, SH20A, SH200A
 BG RB485S, 706, 706R, 706S, 706SR, RB919SR5, RB955S
 Champion C27, C27S, REM38P, RHM38P, REM39N, REM40E, RHM40E, ED41N, D41N, EM41N, M41N, EM42E, M42E
 Red Seal SA190, SE190, SJ190, SE230, SJ230

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