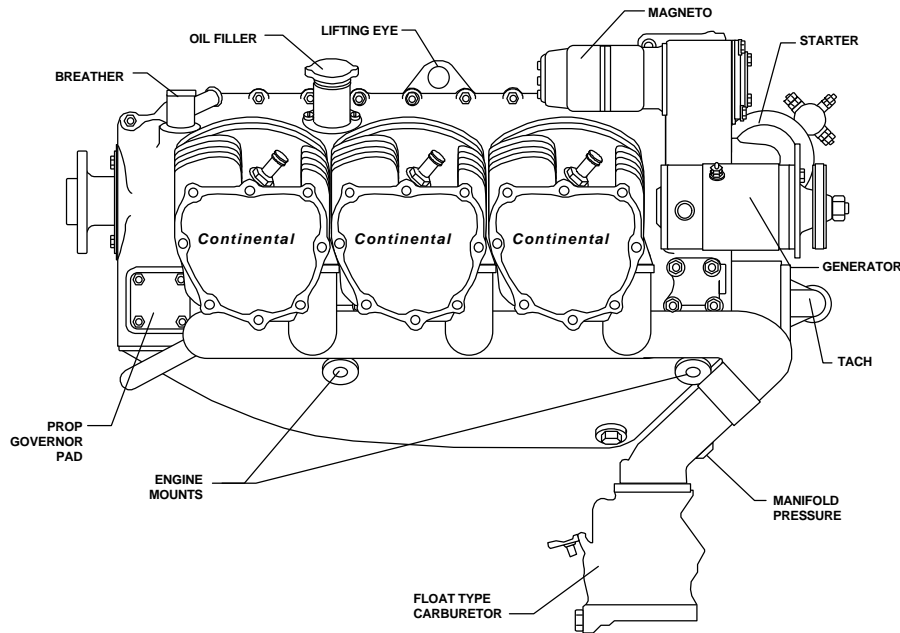


O-470-R

Type Certificate E-273

ENGINE SPECIFICATIONSO-470-R



The O-470-R model is a six cylinder carbureted engine producing 230 brake horsepower and has a crankshaft speed of 2600 RPM. The engine has horizontally opposed air cooled cylinders. The engine cylinders have an overhead inclined valve design. The cylinders have updraft intake inlets and downdraft exhaust outlets mounted on the bottom of the cylinder head.

The O-470-R model has a 471 cubic inch displacement achieved by using a cylinder design with a 5.00 inch diameter bore and a 4.00 inch stroke. The O-470-R weighs in at a dry weight of 379.66 lbs. without accessories. The weight of the engine with installed accessories is approximately 425 lbs.

OVERALL ENGINE DIMENSIONS INCHES	
HEIGHT	28.42
WIDTH	33.56
LENGTH	36.03

Cylinders
 Arrangement Horizontally Opposed
 Number of Cylinders 6
 Compression Ratio 7.0:1
 Firing Order 1-6-3-2-5-4
 Bore (Inches) 5.00
 Stroke (Inches) 4.00
 Piston Displacement (cu. in.) 471

Brake Horsepower
 Rated Maximum Continuous Operation 230 BHP @ 2600 RPM

OPERATING LIMITS

Crankshaft Speed - RPM
 Rated Maximum Continuous Operation 2600
 Manifold Pressure Limit (In. Hg.) Absolute Full Throttle
 Fuel Control System Carburetor MA-4-5
 Fuel 80/87 Min.
 Oil

TEMPERATURE	AVIATION GRADE	SAE GRADE	MULTI-VISCOSITY
BELOW 40	65	30	10W-30 / 15W-50 / 20W-50
ABOVE 40	100	50	15W-50 / 20W-50 / 20W-60

Oil Pressure
 Idle, Minimum, psi 10
 Normal Operation, psi 30-60
 Oil Sump Capacity (U.S. Quarts) 12
 Max. Oil Consumption (Lb./BHP/Hr. Max.)006 X % Power
 100

Oil Temperature Limits
 Minimum for Take-Off 75° F
 Maximum Allowable 225° F

Cylinder Head Temperature
 Recommended Max. at Cruise Not Available
 Limit 460° F

Ignition Timing (Compression Stroke, Breaker Opens)
 Right Magneto, Degrees BTC 22°
 Left Magneto, Degrees BTC 22°

Spark Plug
 TCM 627978
 Champion RHM40E

