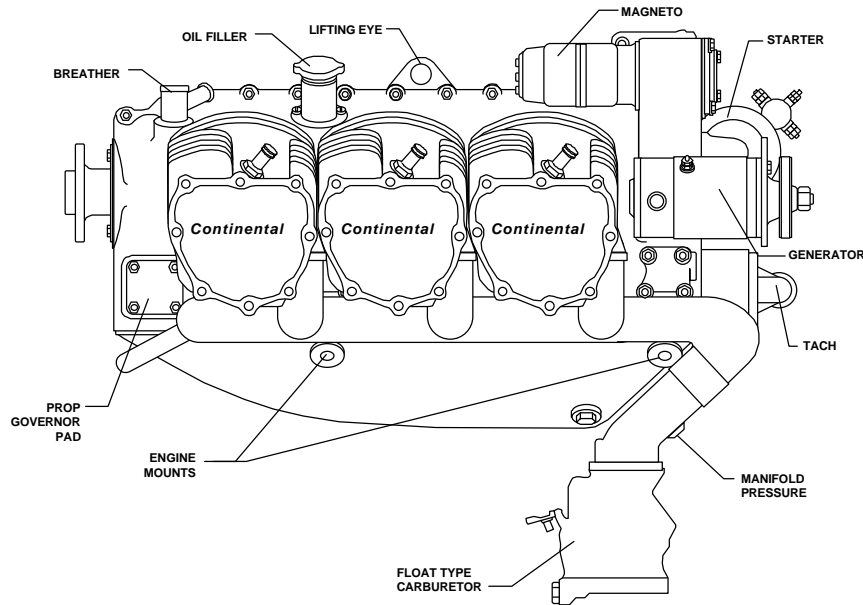


# O-470-U

# Type Certificate E-273

# ENGINE SPECIFICATIONS .....O-470-U



The O-470-U model is a six cylinder carbureted engine producing 230 brake horsepower and has a crankshaft speed of 2400 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-U 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-U weighs in at a dry weight of 388.93 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 .....	8.6:1
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 @ 2400 RPM
Recommend Maximum Cruise .....	172 BHP @ 2400 RPM

## OPERATING LIMITS

### Crankshaft Speed - RPM

Rated Maximum Continuous Operation .....	2400
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### Manifold Pressure Limit (In. Hg.) Absolute .....

Full Throttle

### Fuel Control System .....

Carburetor MA-4-5

### Fuel .....

100 or 100LL

### 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 .....	240° F

## Cylinder Head Temperature

Recommended Max. at Cruise .....	400° F
Limit .....	460° F

## Ignition Timing (Compression Stroke, Breaker Opens)

Right Magneto, Degrees BTC .....	24°
Left Magneto, Degrees BTC .....	24°

## Spark Plug

TCM .....	634675
Champion .....	RHB32E



**CONTINENTAL MOTORS**