

Front view

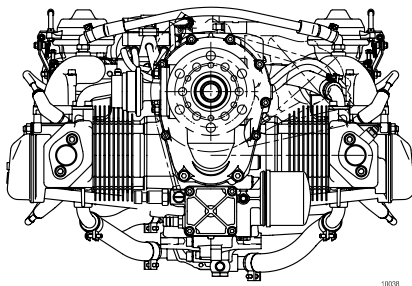


Figure .4: Front view engine

1.9) Technical data

Description	912 A/F/UL	912 S/ULS
Bore	79.5 mm (3.13 in)	84 mm (3.31 in)
Stroke	61 mm (2.40 in)	61 mm (2.40 in)
Displacement	1211 cm ³ (73.9 in ³)	1352 cm ³ (82.5 in ³)
Compression ratio.	9.0 : 1	10.8 : 1

1.10) Fuel consumption

Fuel consumption	912 A/F/UL	912 S/ULS
At take-off performance	24.0 l/h (6.3 gal/h)	27.0 l/h (7.1 gal/h)
At max. continuous performance	22.6 l/h (5.6 gal/h)	25.0 l/h (6.6 gal/h)
At 75 % continuous performance	16.2 l/h (4.3 gal/h)	18.5 l/h (4.9 gal/h)
Specific consumption at max. continuous performance	285 g/kWh (0.47 lb/hph)	285 g/kWh (0.47 lb/hph)

2.2) Operating limits (912 S/ULS)

Performance

Performance data relate to ISA (International Standard Atmosphere) conditions without Governor, external alternator etc.

Take-off performance	73.5 kW at 5800 rpm
Max. continuous performance	69 kW at 5500 rpm

Speed

Speed	
Take-off speed	5800 rpm (max. 5 min.)
Max. continuous speed	5500 rpm
Idle speed	min. 1400 rpm

Acceleration

Limit of engine operation at zero gravity and in **negative „g“** condition.
Max. 5 seconds at max. -0.5 g

Oil pressure

Oil pressure	
Max.	7 bar (102 psi)
Min.	0.8 bar (12 psi) (below 3500 rpm)
Normal	2.0 to 5.0 bar (29-73 psi) (above 3500 rpm)

ATTENTION

Oil pressure max. for a short period admissible at cold start.

Oil temperature

Oil temperature	
Max.	130 °C (266 °F)
Min.	50 °C (120 °F)
normal operating temperature: approx. 90 to 110 °C (190-230 °F)	