

# Example calculation

## Car with a Zired motor

### Technical data Zired motor in motor operation

1. Masses: B = 408 mm, H = 408 mm, T = 408 mm
2. Weight: about 340 Kg stainless steel / aluminum
3. Operating pressure 3 bar
4. Torque (1 turn) approx. 470 Nm
5. Operating revolutions per minute: 1 - 24 (up to 120 feasible)
6. Air volume liters per revolution: about 10 liters / rev, 30 liters / rev (3 bar operating pressure)
7. Low noise
8. Consumption at 24 rpm about L = 46171 / h (Atmospheric pressure)
9. Maximum Speed 220 Km / h (with gearbox and rolling circumference of tires 1.9 m)
10. Tank 5 bottles per 100 liters. Per bottle 300 bar (= 150000 liters atmospheric pressure)
11. Weight tank (carbon bottle) full 240 Kg
12. Range: about 660 km ( $(\frac{150000-3}{46171} \approx 3,2)$  at full speed, 3h X 220 km / h = 660 km)
13. Maximum operating pressure: 80 bar (due to design)

For more information please write to:

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