

R-60 MISSILE / AA-8 APHID



In the age when replacement of weapons, whose life time has expired with new ones becomes more and more expensive, there is an effective, cheaper way to revitalize your very expensive systems. Overhaul.

Originally the shelf-life of the R60 rocket is 10 years. Applying the process of overhauls this lifetime is extended for another 10 years, with minimal investments.

Overhauling the Russian self-guided air to air missile R60 in the first place demands replacement of the motor section with a new rocket motor. It's characteristics fully correspond to the original one. Furthermore, by replacing gas generator propellant grain, the original characteristics of the pressure in the gas generator that enables electrical supply of the missile, are obtained. Whole process is based on a simple dismount-mount procedure, prescribed by the original Russian manuals.

Why? After a period of designated time, degradation of the propellant grain of the rocket motor is inevitable and the precaution measures dictate the possibility of the system being used. If all the subsystems on the missile function correctly why dispose of the whole system?

EDePro Company has developed and produces Rocket motor EDePro RM-R60 and gas generator EDePro GG-R60 with characteristics fully matching the original Russian specifications.

The Rocket Motor EDePro RM-R60 is a new state-of-art motor design with a single piece, cylinder shape propellant grain, which is inhibited along the outer surface and forward end. It contains two types of propellant, which differ in burning rate.

Combustion chamber insulation only protects the zone in the combustion chamber which is not covered with propellant grain, i.e. near the nozzle entrance.

Nozzle design is a reproduction of the original, including AG-4V thermo insulating surfaces. Original nozzle can be reused instead of the new one.

Implementation of the missile and full scale testing has been performed by the Army of the Republic of Serbia. Rocket motor EDePro RM-R60 and gas generator EDePro GG-R60 are fully attested by the Army of Serbia & Montenegro.

The delivered rocket motors and gas generators are mounted on the missile and ready for use.

Gas Generator EdePro GG-R60

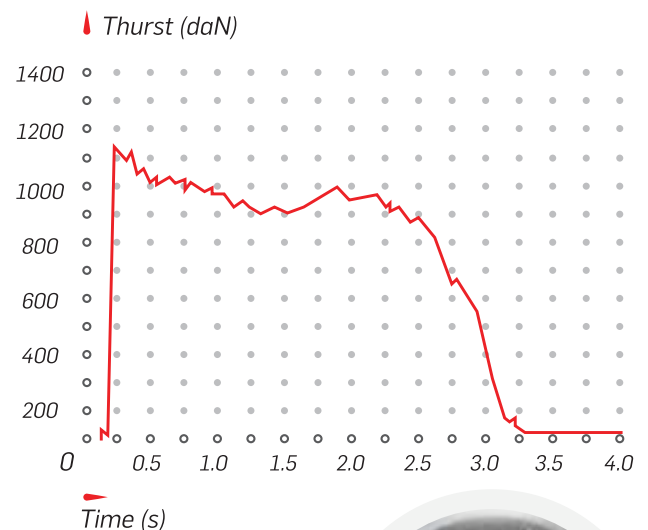
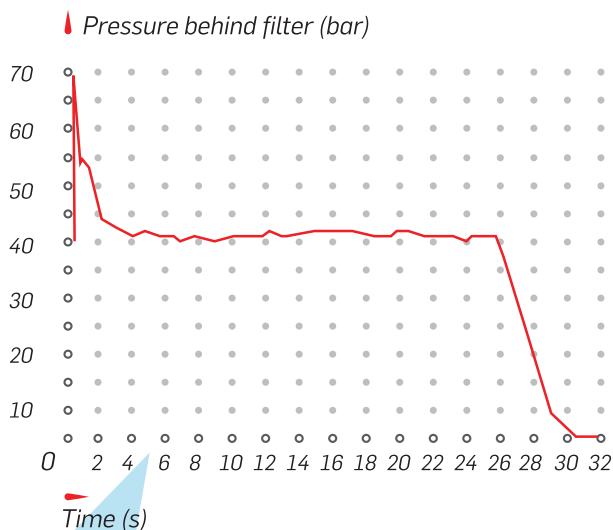
DIMENSION

Caliber	61.3 mm
Length	154 mm
Total Mass	1.59 - 1.75 kg
Propellant Mass	0.41 - 0.45 kg
Temperature Range	-50 ~ +50 °C
Minimum Working Time	17 s
Pressure	35 - 70 bar

Rocket Motor EdePro RM-R60

DIMENSION

Caliber	119.7 mm		
Length	931.5 mm		
Total Mass	19.4 ± 0.35 kg		
Propellant Mass	11.7 ± 0.15 kg		
Temperature Range	-50 ~ +50 °C		
	-50°C	+20°C	+50°C
Motor Total Impulse	24500 Ns	25000 Ns	25000 Ns
Burning Time	3.3 ± 0.4 s	3.0 ± 0.4 s	2.9 ± 0.4 s



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