

## Case Study

# AIM-9 "Sidewinder"

### Locations

Tikkakoski, Finland  
Den Helder, Netherlands

### Needs

To further secure purity and source of nitrogen used to cool homing heads in Sidewinders.

### Applications

AIM-9, Sidewinder missiles

### Lasergas Product

- Stationary nitrogen generator

### Overview

Sidewinder users needed to provide ultra-pure nitrogen for AIM-9 missile's testers and cooling gas bottles.

Nitrogen is used to cool the infrared detectors of the missiles abroad as well as in missile tester. Contaminated homing head can be rescued by flushing it with clean nitrogen.

## Challenge

It is known fact among AIM-9 users that existing high-pressure air/gas compressors are leaking oil and other contaminations to the missile test centre's network, testers, TMU/LAU-7 bottles and missiles itself. This leads to big problems and unnecessary work and loss of money. To eliminate these problems Laser Gas has developed stationary nitrogen generator.

The system user's had been using contained oil-lubricated high pressure compressor which meant purity problems. The missiles had to be sent back to manufacturer for repairs, this is highly expensive.

## LaserGas solution

Eg. The Finnish Air Force and Royal Netherlands Air Force turned to LaserGas Nitrogen Generators to eliminate purity and reliability problems.

## Benefits of LaserGas Nitrogen Generator

- Solves contamination problems
- Can be customized to match specific requirements
- Minimal servicing requirements
- Extremely cost-effective compared to cylinder gas
- Safer to use than other systems

## About LaserGas

Laser Gas Ltd manufactures oxygen and nitrogen generators and controlled atmosphere systems, based on Pressure Swing Adsorption (PSA) or membrane technology. Extracting oxygen or nitrogen directly from the air, Laser Gas compact on-site systems are a cost-effective alternative compared to pressurised cylinder gas in many applications. The nitrogen generator can achieve a maximum purity of 99.9999%, which is the highest possible. Laser Gas Ltd is located in Finland. The company operates out of a multi-facility complex that includes administration, engineering, marketing, product support, test and manufacturing departments.

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