

RYPOS TRAP

Active Diesel Emission Control System

FIELD DEMONSTRATIONS

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Field Demonstrations

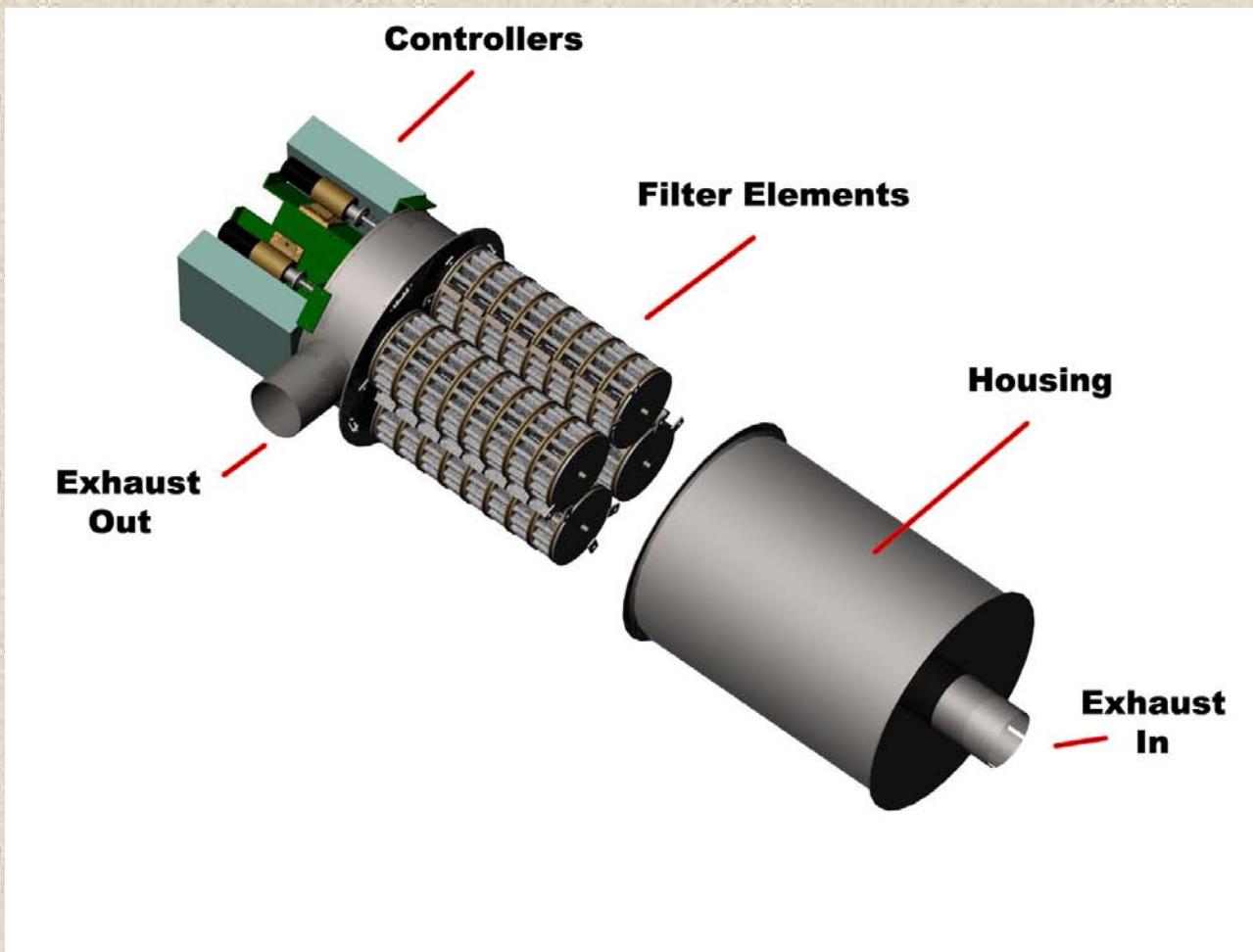
Objectives

- **Build and test engineering prototypes and demonstration units.**
- **Collect test data and get feedback to refine our design.**
- **Increase awareness of RYPOS TRAP**

Filter Cartridge



RYPOS TRAP: RT408C



RYPOS TRAP: Advantages

- Unique Filter Media
- Direct Electric Heating
- Controlled Regeneration
- Smart (Automatic)
- Energy Efficient
- Reduces Soot and Smoke

Field Tests: February-August 2002

ICAT Program (Riverside, California)

- 100 kW Genset
- 225 kW Genset
- 350 kW Genset

Edwards AFB (California)

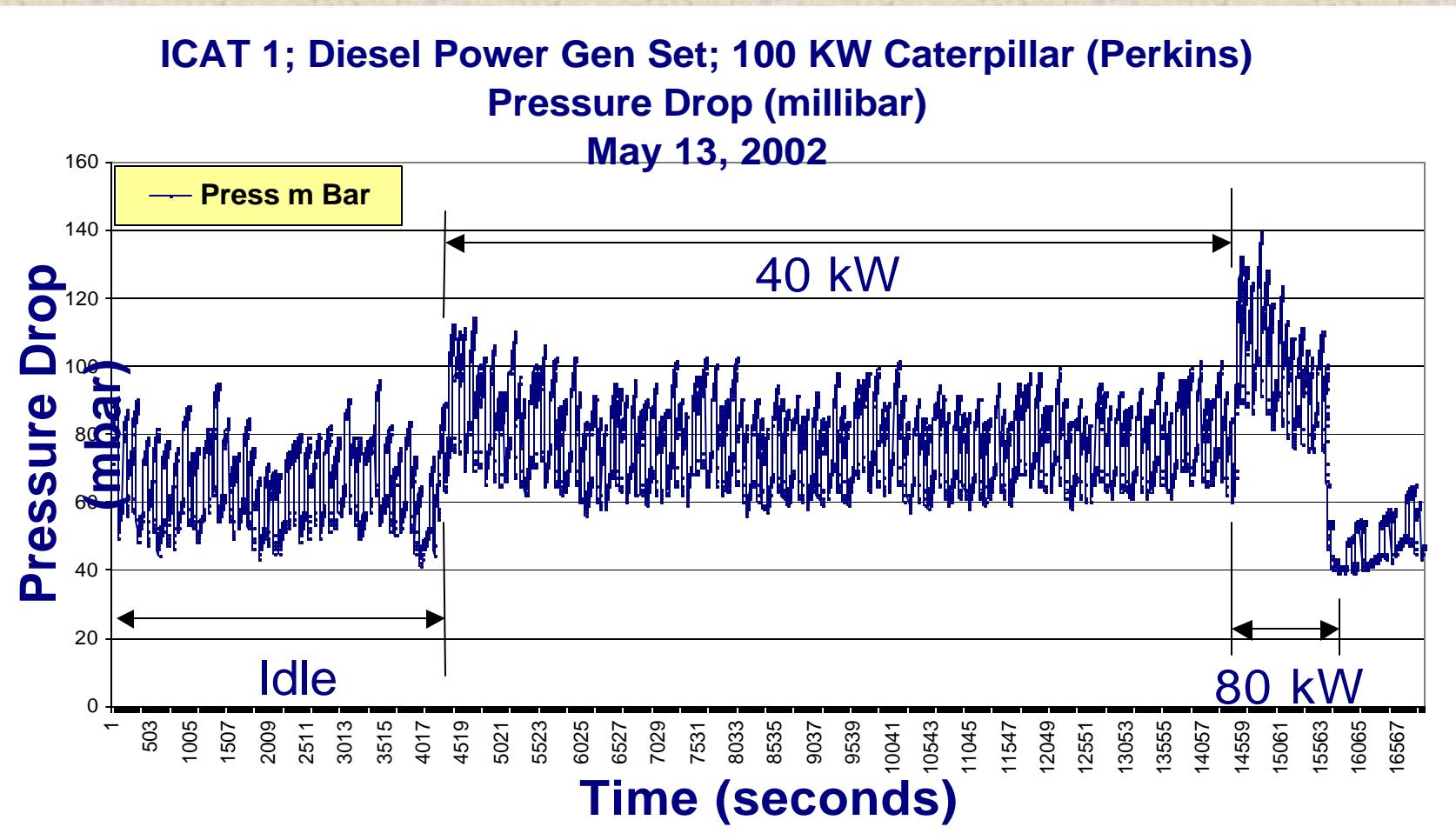
- Two 75kW Aircraft Ground Power Units

Road Grader (Riverside, California)

ICAT PROGRAM: 100kW Diesel Generator Riverside, California



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ICAT PROGRAM: Particulate Sampling

Particulate sampling

Particulate sampling was conducted by Rypos using some of the guidelines set by A.R.B. in “Method 5” for stationary engines.

Method highlights

- Tissue Quartz (no binder) sample filters
- Analytical balance 0.1mg sensitivity
- Positive displacement vacuum pump
- Non-diluted sampling train

ICAT PROGRAM: 100kW Diesel Generator Riverside, California

Load	Efficiency (TPM) Just after installation	Efficiency (TPM) Just before uninstallation
Idle	77%	78%
40 kW	70%	86%
80 kW	96%	89%

ICAT PROGRAM: 200kW Diesel Generator Riverside, California

