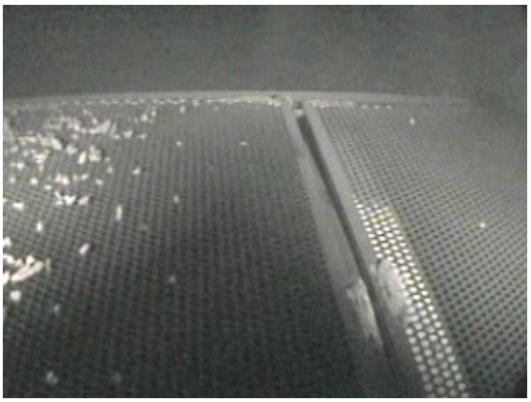
Flow Scope Hi-T™

for online inspection in high temperature ducts

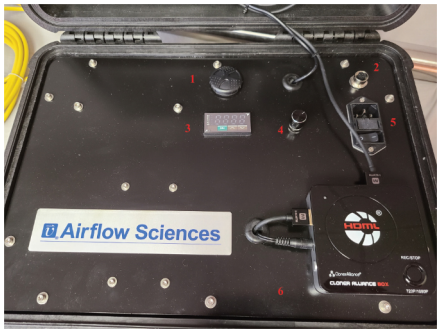
Airflow Sciences Corporation (ASC) has developed an inspection camera tailored to performing duct and stack internal inspections while the systems are operational. The Flow-Scope Hi-T features an HD video camera and uses a supplemental cooling air system to allow for video inspections in duct systems operating at up to 750°F, simplifying many troubleshooting or preventative maintenance tasks.

The Flow-Scope Hi-T is robust and requires only a 2” test port to provide real-time video inspection of duct internals. The integrated lighting system allows for a viewing range of up to 20 feet from the camera. The light brightness is fully adjustable, so the user can make modifications on the fly to avoid any washed-out images.

The camera probe uses an air cooling system to allow for testing in high-temperature ducts. Both the camera and the probe cooling system run on standard 120VAC, so no exotic connections are required; test any location that has a power outlet. The camera probe can be customized for each client, with a maximum probe length of 20 feet, for inspecting even the most remote duct location. The integrated display allows for real-time visualization of the duct internals, while each video is recorded to a USB drive for later analysis.



Large Particle Ash (LPA) collection screen for protection of downstream catalyst equipment



Operator panel (above)

Control panel and probe head (left)

Equipment Details

- Up to 750°F
- Probe customizable from 4' to 20'
- Up to 20' viewing range
- Requires 120 VAC power

Camera Details

- Size: 1.75” dia. probe body, user-specified length
- Weight: Probe weighs approx. 1.2lbs/ft

Airflow Sciences Corporation

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For more information:
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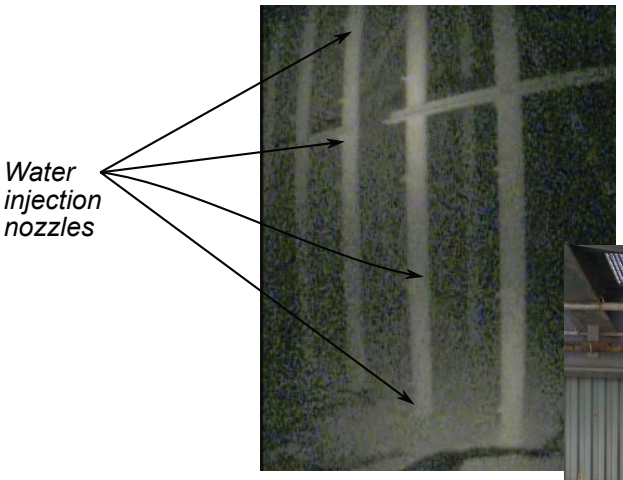
The entire camera system is field serviceable. If any repairs are required, they can be performed in less than 15 minutes, minimizing system downtime.

Inspection Examples

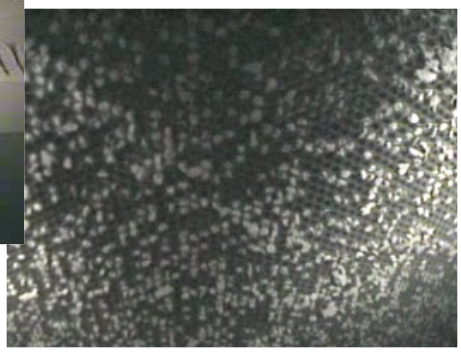
- LPA Pluggage of Screens and Catalysts
- Hopper Sweepage
- Ash Accumulation Issues
- Effects of Soot-Blowing
- Find Plugged Injection Ports
- Cleaning Effectiveness
- Air Heater Seals
- Sorbent Injection Lances



Temperature quenching system in FGD inlet duct

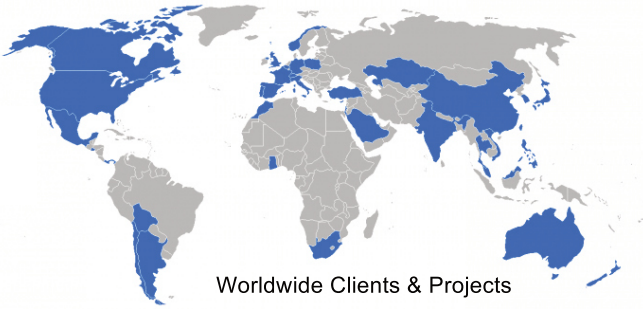
SCR structural steel inspection

Flyash build up on an I-beam above a catalyst



LPA pluggage of a catalyst

What can we do for you?



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