

“SNIFF” Software Version 3

Air Sampling Pipe Design Software

89.256

FENWAL®

FEATURES

- UL Listed
- ULC Listed
- FM Approved
- Systems up to 100 holes and 40 Branches
- Calculates Optimal Sampling Hole Sizes for Equal Sensitivity at Each Hole
- Calculates Maximum Smoke Transport Time Per Sampling Hole
- Optimizes Pipe Diameters
- Prints Commissioning Reports, Isometric Drawings and Pipe Network Parts List
- For Both Open-Ended and Closed-Ended Pipe Networks
- Compensates for a Wide Range of External Airflow Velocities, Differing Static Pressures and Elevations Above Sea Level
- User-Friendly Graphical Interface
- Windows® 95/98/2000/NT Compatible
- Four Language Selections: English, Spanish, French and Portuguese
- For use with all AnaLASER® High Sensitivity Smoke Detectors

DESCRIPTION

“SNIFF” Version 3 software is a Windows® application that is used for designing air sampling pipe networks for AnaLASER® High Sensitivity Smoke Detectors.

The overall performance of an HSSD® system depends on proper layout and design of the air sampling pipe network. Optimal performance can be achieved by designing a dynamically balanced pipe network using the “SNIFF” Version 3 software. A dynamically balanced pipe network is defined as having equal sensitivity at each sampling hole.

“SNIFF” designs a dynamically balanced pipe network by calculating the suction pressure of each sampling point in the pipe network. Then, “SNIFF” calculates each sample hole diameter in order to equalize the suction pressure for the entire network. “SNIFF” also provides a variety of calculations such as maximum transport time of the pipe network and optimal pipe diameters.

“SNIFF” features an easy-to-use graphical interface. Designing a pipe network is made simple through the software’s isometric drawing capabilities. In the isometric view, the designer can “sketch” the network into the software using a variety of buttons that represent piping, elbows, sampling holes, etc. This allows the designer to easily visualize and make changes to the pipe network. A copy and paste feature further simplifies data entry.



“SNIFF” calculations can accommodate many variables such as open and closed pipe networks, air pressure differential, external air velocities and elevation above sea level. Pipe networks can be designed with a wide variety of pipe types and pipe fittings and various reports can be generated for commissioning and purchasing purposes.

“SNIFF” Version 3 is more versatile than previous versions of the software. These features include:

Open-Ended Pipe: This option can be used instead of closed-ended pipe for systems requiring faster transport time.

Static Pressure Differential: Allows for pipe branches installed in areas with different static pressures.

Capillary Tubes: Calculations now permit use of sampling points with 3/8" ID capillary tubes.

Extended Sampling Point: Allows lengths up to 25 feet with 1/2" or 3/4" pipe.

Unit of Measure Selection: Can be configured to run in feet or meters.

Airflow Velocities: Different airflow velocities can be assigned to each branch.

Elevation Above Sea Level: Improves accuracy of calculations.

CALCULATION RESULTS

"SNIFF" calculations are required for designing a dynamically balanced air sampling pipe network, commissioning a system and verifying code compliance. "SNIFF" calculates the following:

Sample Hole Diameters: The calculated size of each sample hole for equal sensitivity at each hole.

Transport Time of the Pipe Network: The amount of time it takes for smoke to travel to the detector from the sample hole located farthest from the detector.

Transport Time From Each Sample Hole: The amount of time it takes for smoke to travel to the detector from each sample hole in the pipe network.

Suction Pressure of Each Sample Hole: The amount of air suction measured in inches of H₂O for each sample hole.

Pipe Diameters: The size of pipe used in the pipe network. This is only applicable for systems where the pipe optimization feature is used.

End Cap Hole Size: The diameter of the hole in the end of a pipe branch. This is only applicable for systems where the open-ended pipe feature is used.

AVAILABLE REPORTS

After a pipe network has been designed, a wide variety of reports are available. "SNIFF" organizes all of the inputted data and calculated results to create specific reports that cater to the needs of installers, designers, suppliers or a purchasing department. The reports that "SNIFF" generates include:

Isometric Drawing: A printout of the graphic representation of the designed pipe network.

Plan and Elevation Drawing: A printout of the designed pipe network in plan and elevation views.

Pipe Report: A detailed list of all types of pipes and pipe fittings, such as elbows, tees, etc. sorted by pipe segment.

Calculation Report: A summary of all calculations for the pipe network, i.e., sample hole diameters, transport time, suction pressure, extended sampling point length, etc.

Parts List: An organized list of all types of pipes and pipe fittings that need to be purchased for the designed pipe network.

Other Reports: Includes project information, designer notes and protected area definition.

HSSD® COMPATIBILITY

"SNIFF" Version 3 Software is compatible with the following AnaLASER High Sensitivity Smoke Detection Systems:

- AnaLASER II
- AnaLASER Modular Detector
- AnaLASER Self-Contained Detector
- AnaLASER TFP™ Releasing Control Panel and HSSD Detector
- AnaLASER 204L LocalASER™ 4 Zone Detector
- AnaLASER EExd Explosion Proof Detector

SYSTEM REQUIREMENTS

"SNIFF" is designed to run on computers running Windows 95/98, 2000 or NT. The computer should meet these minimum criteria:

- Pentium 75 MHz CPU
- 32MB of RAM
- 12MB of hard disk space
- A VGA monitor (800 x 600 pixel)
- A mouse or compatible pointing device
- CD-ROM drive

ORDERING INFORMATION

Component	Part Number
"SNIFF" Version 3 Software Disk and User's Guide	89-300040-001
"SNIFF" Version 3 User's Guide	89.202



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