Purpose

The Cert-Pro Hoods program is a fully automated solution to the test and certification of all types of hoods used in the Cleanroom, laboratory and contamination control fields. All work orders, hood test reports, test specifications and client information are stored in the relational databases and recalled at will to fully automate this process. In addition, all field test data is collected and entered automatically from the test instruments to eliminate any need for data entry by the field technician.

After the field test is complete, all calculations are automatically performed and the Certification reports are generated automatically at the end of the test.

Features

- Fully automated collection of data using wireless Bluetooth technology. This includes all data collected from supported anemometers, Micromanometer, particle counters and flow hoods.
- One button click to generate test reports. The reports include all acceptance criteria, test grid requirements and equipment locations.
- Fully automatic calculations required for certification.
- Automatic generation of test reports and raw data reports. After completion of the
 certification test, reports are populated and ready for printing at the click of a
 button.
- Tracking of complete repair history of all hoods in the database.
- Full certification history for every hood in the database.
- Client/Server application allows for fully automatic transfer of all work orders and test data from the office to an unlimited number of field technicians. The synchronization of this data may be performed across the company intranet, or through the internet, allowing for remote support for all your technicians from anywhere in the world.
- Very easy to use menu driven program with tooltips to guide all users.
- Tracking of all test instruments for ease of reverse traceability, and calibration due reports.

Supported Equipment Types for Automatic Certification

- Biological Safety Cabinets (BSC), including:
 - Type A, B1 and B2 cabinets using exhaust filter inflow calculations, DIM Measurements on Constricted Inflows.
 - o Zoned or uniform downflows.
 - Select certification requiring airborne particle counts, or no particle counts depending on various customer requirements.
- Unidirectional Flow Hoods (*Laminar Flow Hoods*).
- Fume Hoods including Variable Air Volume (VAV) or Constant Air Volume (CAV).
- Ventilated Balance Safety Enclosures (VBSE) or powder weigh hoods.
- Cleanrooms with up to 18 HEPA filters and 18 particle count locations. (For larger Cleanroom certifications, see the Cert-Pro Cleanroom Classifier program)

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Test Instruments Supported for Fully Automatic Data Collection:

Air Velocity Meters

TSI Models with RS232 interface. For those TSI instruments with datalogging capability, the Cert-Pro program can automatically poll the instrument allowing for additional capability.

Shortridge Instruments with RS232, including ADM860 and ADM870.

Micromanmeters

TSI and Shortridge with RS232.

Flow Hoods

TSI and Shortridge with RS232. Full backpressure compensation support for the shortridge ADM instruments.

Particle Counters

Climet CI-150

Climet CI-550

Climet CI-8060

Climet CI-6300

Climet CI-7000 Series

Met One 200L (with RS232)

Met One 2448

Lighthouse Instruments

Other instruments are being added by request. If you have an instrument that is not listed, let us know and we will add support for this instrument wherever possible.

Database capacities are only limited by available disk space. This means essentially unlimited capacity for storage of Client Records, Work orders, Hoods, Test Standards, Test reports, Repair reports

Test report text is fully modifiable by the client to allow for different test descriptions and requirements without any custom programming required.

How It Works

The Cert-Pro Hoods program consists of two separate versions of the program, an Administrator version and a Field Technician version.

The Cert-Pro Hoods program requires the purchase of a single Administration version of the program.

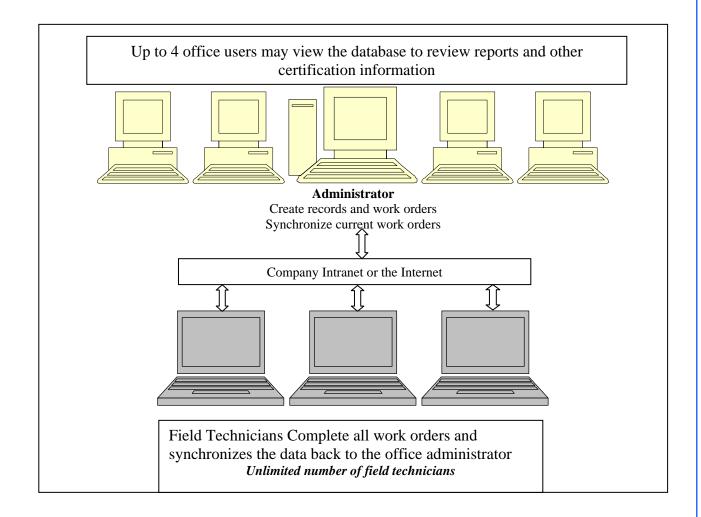
Administrator Copy

The Administrator version is installed on a single company office computer. The Administrator version of the program is used to create all database records including clients, hoods, work orders and test reports. Once work orders and test reports are created, the records are synchronized with one or more Field Technician copies of the program for field execution. The Administration copy of the program may be shared with up to 5 simultaneous users at the same time. (If administrator sharing is desired, each simultaneous user requires a copy of Filemaker version 8.5 installed on their computer)

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Technician Copies

A separately purchased copy of the Technician program is required for each field technician performing field certification simultaneously. The Field Technician copy of the program is installed on a technician laptop computer which will be taken into the field to perform the actual test, certification and repair of client equipment. Once the field technician completes the data collection for a work order, the data is synchronized with the Administrator copy for permanent data storage and report distribution. Synchronization of data between the office and field technician can be performed using the company intranet connection, if properly configured, through the internet. The use of the internet allows for technicians in the field to perform all field duties without the need to return to the office to collect new work orders and deliver the previously executed work orders and test reports.





Program Screen Shots



Figure 1. Admin Main Screen



Figure 2. Technician Main Screen



Figure 3. Work Order Screen



Figure 4. Equipment Entry Screen



Figure 5. Typical Air Velocity Screen

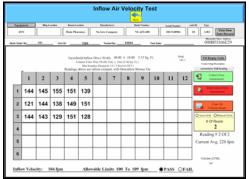


Figure 6. Exhaust/Inflow Velocity Screen



Cert-Pro Hoods Certification Tool Data Sheet Program Screen Shots

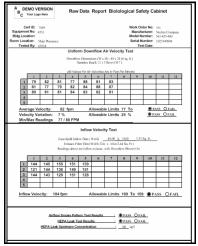


Figure 7. Typical Raw Data Report



Figure 8. Typical Cert Report

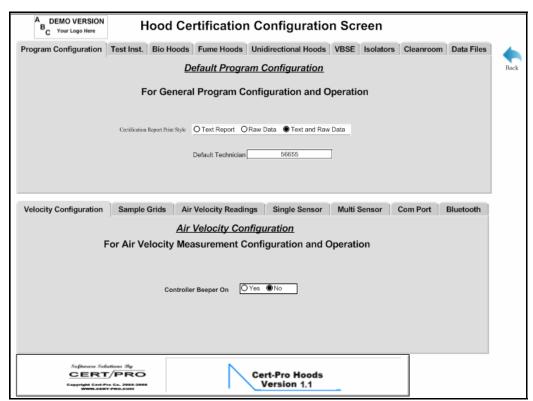


Figure 9. Comprehensive Configuration Options