

HVAC Testing Solutions



KANOMAX

The Ultimate Measurements

The Most Accurate Instruments for the HVAC Professional

The HVAC industry is becoming more and more competitive. For TAB (Test and Balance), to differentiate your offering from the competition, it often comes down to service and how accurate your readings are. For Laboratory control as well, you just need reliable, accurate instruments that won't break the bank.

Kanomax provides a complete line of products, from field test equipment to instruments used in the actual test and development of HVAC equipment. Rugged but accurate field instruments for the TAB technician, reliable anemometers and particle counters for development support, and precise monitoring instruments for laboratory environment control - we have it all.



HVAC Testing & Balancing

As we all are aware, conditions are becoming more stringent in the HVAC TAB (Testing and Balancing) industry. Commercial and residential (rental units) building owners are being expected to guarantee the air quality and safety levels of the air that is being circulated within their buildings.

Kanomax instruments were designed with you, the HVAC field technician in mind. Our simple to use, lightweight instruments will always give you the most accurate readings.



Laboratory Control

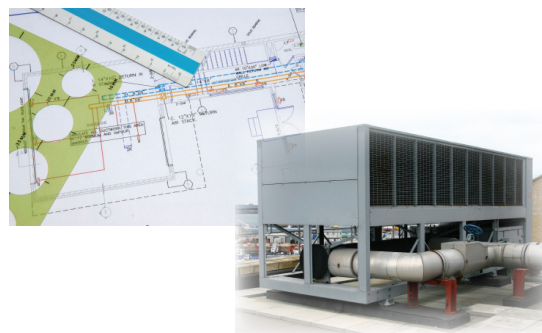
Kanomax provides a wide array of instruments for Laboratory Control applications such as Bio-safety Cabinets (BSC) and Fume Hoods. Our popular ASHRAE-110 Diffuser Kits contain everything you need for ASHRAE-110 compliance fume hood testing. Our trusty Climomaster allows you to test up to five different parameters in your BSCs and Fume hoods.

Not only are our instruments practical, we can get pretty techie too, for all you lab rats out there. Only the latest, most advanced equipment for you folks - see for yourselves.



HVAC Equipment Development Support

Kanomax provides a full line of instruments to help in the actual development of HVAC equipment - use our instruments in your design/development phase for precise airflow and air particle measurements.



HVAC Testing & Balancing

Handheld Anemomaster™ Series

Kanomax anemometers can measure a wide variety of parameters to test ventilation rate. The parameters include air velocity, airflow, static pressure, temperature, and humidity of the indoor environment.



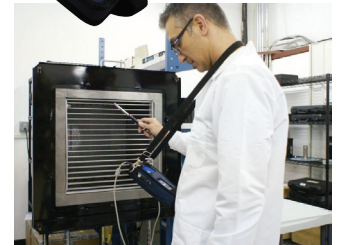
Anemomaster™ Model 6036



Vane Anemomaster™ Model 6813



Anemomaster™ LITE Model 6006



Hands-free Carrying Case
(for Climomaster & Anemomaster)

Features and Benefits

- Simultaneous measures air velocity and temperature, data logging, tele-scope and articulating probe, research-grade instrument at a contractor-friendly price (Model 6036 Series)
- Various models for air velocity, temperature, and relative humidity; high accuracy, +/- 1%; 40 fpm air velocity sensitivity; store up to 10 different duct sizes (Model 6810 Series)
- Palm-size and feather-weight standard hot-wire Anemometer (Model 6006)



Climomaster™ & Probes

Climomaster™ Model 6501 Series

The most accurate hotwire anemometer (in its class) on planet Earth. Just some of its capabilities include: up to 8 interchangeable probes for air velocity, temperature, humidity, and differential pressure.

Features and Benefits

- Simultaneously measures and displays air velocity, flow rate, humidity, temperature, and differential pressure
- 8 interchangeable probes are available for various applications
- Data processing software allows real-time measuring and downloading data to PC

HVAC Testing & Balancing



Model 6715

TABmaster™ Capture Hood

Our new Kanomax TABmaster™ is the perfect tool for accurate supply and return airflow measurements. Interchangeable hoods make it a snap to sample the air for any duct size. The unit is lightweight and easy to handle. The full color screen can be tilted so it's at the optimal viewing angle at any height.

Features and Benefits

- Removable handheld micromanometer with Bluetooth® wireless capability (Model 6715)
- Five hood sizes make it easy to pick one that fits your duct size
- 23 to 2500 cfm (40 to 4250 m³/h) measuring range
- Displays the direction of the airflow
- New portable stand: extends up to 6.9' from top to base
- Store up to 8,000 measurements



Micromanometer

Handheld micromanometer with Bluetooth® wireless capability takes airflow and pressure readings with a pitot tube or the optional velocity matrix. The matrix is a cross shaped grid, similar to the one in the base of the capture hood, that makes it possible to take face velocity readings and average velocity readings at multiple points simultaneously. The Bluetooth® feature can send data to your smartphone or any Android-based device.



Pitot tubes and Velocity Matrix are available from Kanomax

Features and Benefits

- Range is 0.15 to 40 m/s (with Pitot tube) & 0.15 to 15 m/s (with Velocity Matrix)
- Pressure Range of -2500 to 2500 Pa
- Bluetooth® wireless capability with any Android device

Duct Airflow Measurement

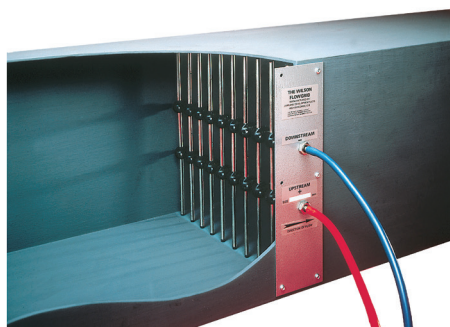
An outstanding simple yet highly accurate, durable and cost effective solution for fixed clean airflow monitoring in ducts and pipes. Flow grids transmit a comparable and repeatable differential pressure proportional to the average airflow.

Features and Benefits

- No moving parts and minimal maintenance required
- Differential pressure output signal interface with compatible manometers and pressure transmitters



Radial grid



Airflow Grids accommodate large volume projects for various duct sizes; velocities up to 8,000 fpm

Laboratory Control

Airflow Transducer for remote monitoring

Control ventilation and temperature in critical controlled air environment spaces, such as laboratories and clean rooms in order to maintain the integrity of experiments and production processes. Kanomax provides instruments, such as Airflow Transducer Model 6332D for bio safety cabinet face velocity monitoring.



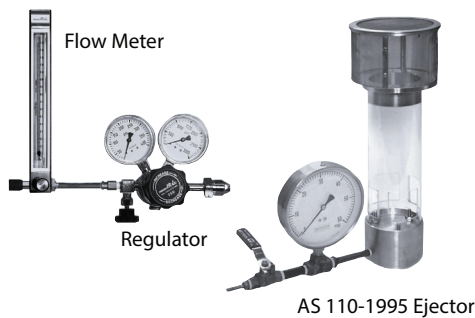
Model 6332D

Features and Benefits

- 10 interchangeable probes are available for various applications
- The Model 6332D features digital display
- Selectable output options: 0 to 5 V or 4 to 20 mA

Professional Fume Hood Diagnostic Tools

The ANSI/ASHRAE 110 test is a method of testing the performance of laboratory fume hoods. Kanomax Dif-Kit tracer gas hardware is ideal for use in performing the Tracer Gas test in accordance with ANSI/ASHRAE Standard 110-1995.



AS 110-1995 Ejector

Features and Benefits

- The diffuser is placed in the fume hood and the tracer gas is injected at a regulated supply pressure
- Anemometer and Test-Mannequin for the Tracer Gas test are available



ASHRAE 110 - 1995 Performance Testing

HVAC Filter Designing

Spot-check right at the source - highly accurate handheld particle counters for checking both return and supply air. At the same time, check airflow and temperature with Kanomax Anemometers. Handheld Particle Counter Model 3887 measures 3 particle sizes simultaneously to provide levels of particulates.



Model 3887



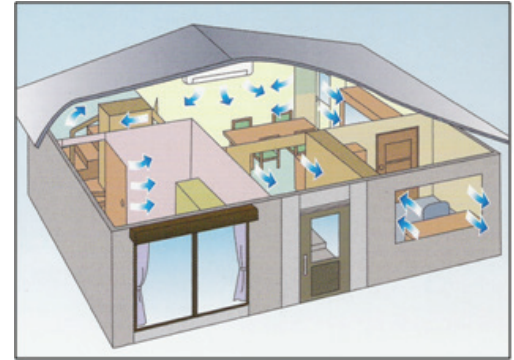
Features and Benefits

- 0.3 micron minimum sensitivity
- Handy and easy operation
- Simultaneous 3 channel particle measurements
- Easy to download measurements to PC

HVAC Equipment Development Support

Multi-Channel Measurements

Kanomax has the right instrument to help with your development of HVAC equipment such as air cooled chillers, air handlers, blowers, complete HVAC systems, etc. Scale up as you see fit - from basic four-channel anemometers to full blown multi-channel units capable of over 300 channel monitoring, you just set the parameters and forget it. Our systems will do the rest and monitor to your heart's content - from airflow, temperature, and humidity.



Multi-Channel Anemomaster™ Model 1550/1560 4-Channel Anemomaster™ Model 1570



Model 1550



Model 1570 & Air velocity Probes

Features and Benefits

- System can be scaled up with modules and probes
- Up to 320-point multi-measurement system with various probes (Model 1550)
- Simultaneous measurements of 4 channels of air velocity (Model 1570)
- 15 interchangeable probes are available for various multi-channel applications

High Temperature Airflow Measurement - up to 932 °F (500 °C)!

With these high-temp probes you could probably measure right inside the combustion chamber! (please check with Kanomax for application advice)

High Temperature Anemomaster™ Model 6162

The Model 6162 and high temperature air velocity probes allow for precision measurements in environments requiring high heat resistance. This system provides up to 50 m/s of air velocity measurement.



Model 6162

Features and Benefits

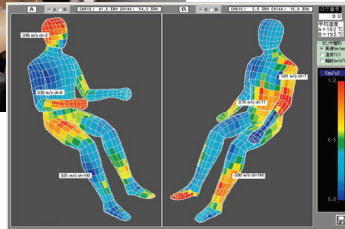
- Air velocity and temperature measurements in 932 °F (500 °C) environments
- Easy probe replacement without recalibration of the main unit
- Store up to 999 measurements
- RS232C interface, analog output, and remote control terminal equipped

Automotive HVAC development

Quantify your HVAC development efforts to help boost J.D. Power ratings! Amenity Manikin system (shown) identifies passenger hot and cold spots. Multi-channel Anemometer (with sensors) aids immensely in vehicle defroster performance testing. Handheld Climomaster for checking cabin airflow optimization right at the vents.



Amenity Manikin



Measurement Software

Amenity Manikin System

The Kanomax Amenity Manikin System is an optimal solution for precise interior cabin comfort evaluation. The system measures parameters, such as air velocity, temperature, humidity, and radiant heat, which all relate to human comfort levels. One mannequin may be equipped with more than 120 sensors, providing sophisticated measurements.

Features and Benefits

- Up to four mannequins may be measured simultaneously, for complete interior cabin simulation
- Wireless connection for easy operation
- Graphical software for both real-time measurement and data retrieval

HVAC Noise Control

Noise reduction of unwanted sound from HVAC equipment provides occupant comfort. Kanomax sound and vibration meters can be utilized for acoustic analysis of HVAC equipment such as outdoor chillers, hydraulic pumps, compressors and many other noisy indoor and outdoor HVAC units.



Model 4431

Sound Level Meter Model 4431

- Identify the source of structure-borne noises
- Check fan and engine noise
- Measure cabin sound levels

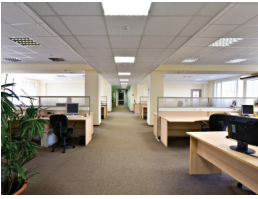


Model 4200

Vibration Meter Model 4200

- Ensure component safety during equipment operation
- Pinpoint vibration sources
- Test effectiveness of attenuation measures

Kanomax Provides Other Outstanding Solutions



General Indoor Air Quality

Measure a variety of parameters important in monitoring and maintaining occupant thermal comfort while helping to assure healthy indoor environments. Kanomax IAQ monitor Model 2211 and Gas Monitors help facility managers to control thermal comfort and to detect sick building syndrome in the building.



Model 2211



Industrial/Occupational Hygiene

Measure parameters including dust concentration, temperature, air velocity, gas concentration, indoor air quality, ventilation performance, pressure differential and humidity to find hazards in occupational environment. Kanomax Piezobalance Dust Monitor Model 3521 and Digital Dust Monitor Model 3443 implement dust exposure testing to protect workers.



Model 3443



Cleanroom Contamination Control

Kanomax cleanroom contamination control products are designed to serve applications from continuous monitoring to certification for any clean environments in the pharmaceutical, electronics, medical, and food industries. Kanomax Cleanroom Monitoring System provides an automated means to monitor and gather airborne particle count and other parameter levels in controlled environments.



Cleanroom Monitoring System



Industrial Testing

Industrial testing covers many applications which integrate manufacturers' research and development processes. Kanomax's strong experience in measuring solutions can serve for various industry needs. Automotive Cabin Leakage Tester, the cabin comfort testing rig, pressurizes the cabin and measures its leakage rate.



Cabin Leakage Tester

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