

SKC Sampling Solutions

For Green Building/IEQ Testing

Recognition

Green buildings have a minimal impact on the environment and are healthy for building occupants. A key environmental category for green building certification is indoor environmental quality (IEQ). IEQ includes moisture control, contaminant control, occupant comfort, and ventilation. IEQ studies are frequently done for formaldehyde, volatile organic compounds (VOCs), carbon monoxide, particulates, lighting, and thermal comfort.

SKC offers solutions for active and passive air sampling and direct-reading monitoring for green building/IEQ testing. SKC active samplers require an air sample pump to collect hazardous gases, vapors, and particulates in air; passive samplers collect hazardous vapors by diffusion without the use of an air sample pump.

See the SKC equipment recommended for green building/IEQ testing.

Evaluation with SKC Sampling Solutions

For over 50 years, SKC has led the research, design, and manufacture of quality sampling equipment and media to aid health and safety professionals in the evaluation of occupational and environmental hazards.

Choose from the many SKC sampling solutions for green building/IEQ testing, ranging from air sample pumps, active and passive samplers, filters, and sorbent tubes to innovative portable instruments following agency methods and established protocols.

Air Sample Pumps



Samplers



Sampling Media



Portable Instruments



See reverse side for specific method and sampling equipment/media information.



Green Building/IEQ Testing

Sample Collection

Active Air Sampling Solutions

| Target Compound or IAQ Criteria | Select Methods* | SKC Sample Collection Media/Sampler and Cat. No. | SKC Sample Pump and Cat. No. | Notes |
|----------------------------------|--|--|------------------------------|---|
| Formaldehyde | EPA IP-6 | Sorbent tube 226-119 or 226-120 | Pocket Pump TOUCH 220-1000TC | 226-120 is used in the presence of ozone. |
| Mold | <i>See SKC Sampling Solutions for Mold and Other Bioaerosols, SKC Publication 1847</i> | | | |
| PM10 or PM2.5 | EPA IP-10A | PTFE filter 225-1709 with Personal Environmental Monitor (PEM) 761 Series. Flow rate determines pumps recommended. <i>See below:</i> | | Single stage impactor Choose model for desired PM size and flow rate. |
| | | 2 or 4 L/min PEM | AirChek® TOUCH 220-5000TC | |
| | | 10 L/min PEM | Leland Legacy® 100-3002 | |
| | EPA IP-10A equivalent samplers | PTFE filter 225-1709 or quartz filter 225-1822 with Personal Modular Impactor (PMI) 225-350 or 225-352 | AirChek TOUCH 220-5000TC | Single-stage impactor with a designated flow rate of 3 L/min. Choose model for desired PM size. <i>Requires 225-355 impaction substrates</i> |
| | EPA IP-10A equivalent samplers | PTFE filter 225-1747 or quartz filter 225-1823 with IMPACT Sampler 225-390 or 225-392 | Leland Legacy 100-3002 | Single-stage impactor with a designated flow rate of 10 L/min. Choose model for desired PM size. <i>Requires 225-395 impaction substrates</i> |
| Polychlorinated biphenyls (PCBs) | ASTM D4861 | Low-volume PUF Tubes 226-124 | Leland Legacy 100-3002 | Sample times up to 24 hours |
| VOCs | EPA TO-17 | Thermal desorption sorbent tube 226-300 Series | Pocket Pump TOUCH 220-1000TC | Coordinate with laboratory prior to sampling to confirm requirements/logistics. |

Passive Air Sampling Solutions

| Target Compound | Select Methods*/SKC Validation | SKC Sample Collection Media and Cat. No. | Notes |
|-----------------|---|--|--------------------------------|
| Formaldehyde | EPA IP-6C, OSHA 1007/Research Reports 1608 and 1661 | UME [®] 100 500-100 | HPLC analysis |
| Organic vapors | EPA TO-17/Research Report 1812 | ULTRA [®] 690 Series | Ideal alternative to canisters |

Direct-reading Instruments

| For Monitoring/Measuring | Instrument and SKC Cat. No. | Notes |
|------------------------------|--|---|
| Carbon dioxide | IAQ Meter/Datalogger 850-048 or 850-050 | |
| Light | Light Meter 850-020 or 850-022 | |
| Multiple chemical parameters | EVM-7 Environmental Monitor 755-EVM7CO or HAZ-SCANNER IEMS 770-800 | Measures 7 critical parameters Measures up to 14 indoor parameters |
| Particulate matter | EPAM 5000 | Filter option for lab analysis |

* Other methods may apply. SKC recommends those listed.

