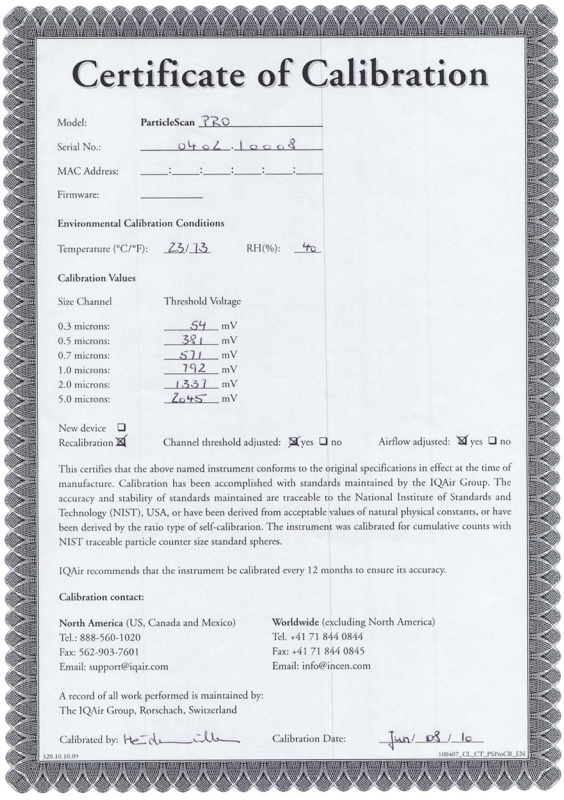
SENTRY AIR SYSTEMS, INC.
ISO 14644-1 CLEANROOM CERTIFICATION
CERTIFICATION FOR THE SS-340-PCR
40" PORTABLE CLEAN ROOM

TEST ORGANIZATION: Sentry Air Systems, Inc.
6999 West Little York, Ste. P1
Houston TX 77040
TEST DATE: Friday, February 25, 2011
ISO PUBLICATION: 14644-1:1999(E) - First Edition 1999-05-01
TEST LOCATION: Factory Bldg Q, Room B
TEST EQUIPMENT: Particle Scan Pro



Certificate of Calibration

Model: ParticleScan PRO

Serial No.: 0402.10008

MAC Address: __:__:__:__:__:__

Firmware: _____

Environmental Calibration Conditions

Temperature (°C/°F): 23/73 RH(%): 40

Calibration Values

Size Channel	Threshold Voltage
0.3 microns:	54 mV
0.5 microns:	381 mV
0.7 microns:	571 mV
1.0 microns:	792 mV
2.0 microns:	1331 mV
5.0 microns:	2645 mV

New device ☐
Recalibration ☒

Channel threshold adjusted: ☒ yes ☐ no Airflow adjusted: ☒ yes ☐ no

This certifies that the above named instrument conforms to the original specifications in effect at the time of manufacture. Calibration has been accomplished with standards maintained by the IQAir Group. The accuracy and stability of standards maintained are traceable to the National Institute of Standards and Technology (NIST), USA, or have been derived from acceptable values of natural physical constants, or have been derived by the ratio type of self-calibration. The instrument was calibrated for cumulative counts with NIST traceable particle counter size standard spheres.

IQAir recommends that the instrument be calibrated every 12 months to ensure its accuracy.

Calibration contact:

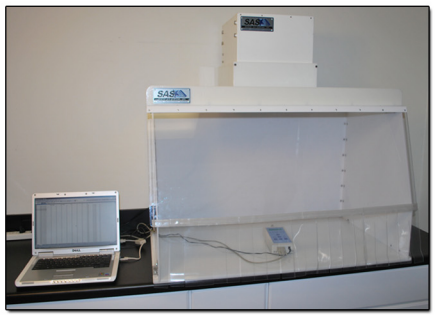
North America (US, Canada and Mexico)
Tel.: 888-560-1020
Fax: 562-903-7601
Email: support@iqair.com

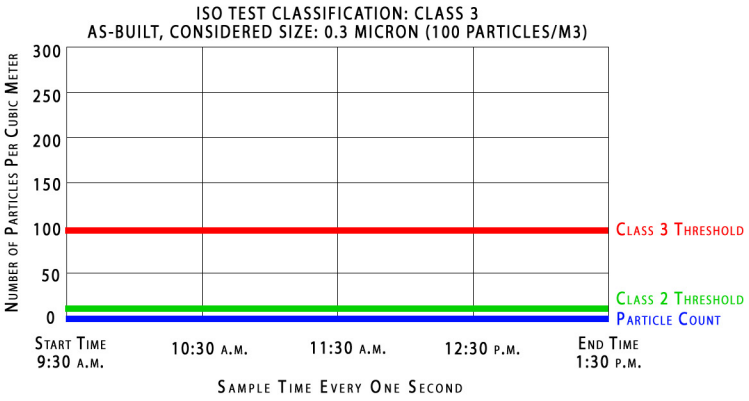
Worldwide (excluding North America)
Tel. +41 71 844 0844
Fax: +41 71 844 0845
Email: info@incen.com

A record of all work performed is maintained by:
The IQAir Group, Rorschach, Switzerland

Calibrated by: Heidi Allen Calibration Date: Jun/03/10

320.10.10.09 100407_CL_CT_PSProCR_EN





According to ISO Classification methods the sampling volume required to determine if a clean room meets the ISO Class 3 requirements is 196 L.

We took a 4 hour sample, but data was only recorded for 59 L of air. In this sampling we recorded 4 particles at 0.3 microns. If we extrapolate that data to 196 L of air we would have 14 particles at 196L of volume. This equates to 71.5 particles per cubic meter of air.

According to ISO standard 14664-1, the equation for the max permitted concentration for classification levels is Cn = 10N x (0.1/D)2.08, Where Cn = the max concentration, N = the classification number and D = the particle size in question. Solving for Cn gives us 101.76 particles per cubic meter.

Therefore, we can conclude from the test that was run on February 25, 2011 that the 340 PCR achieved an ISO level 3 Classification.

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