



MANUFACTURERS AND SUPPLIERS
OF CLEAN AIR EQUIPMENT

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PARTICLE COUNT CERTIFICATE ISO 8 TO ISO 14644-1

DATE:	25 March 2020	TEST EQUIPMENT		
NEXT SERVICE DUE:	TBA	PARTICLE COUNTER:	LASAIR III 310C	
CLIENT:	Brits Nonwoven		CALIBRATION DATE:	see certificate
VA Serv. Rep. REF. No:	49 477		SERIAL No:	see certificate
UNIT / AREA:	Vivid Air Factory D15 Filter Element & Finlam Outer	ANEMOMETER:	TESTO 425	
ORDER No:	COD		CALIBRATION DATE:	see certificate
TEST STANDARD:	ISO 14644-1		SERIAL No:	see certificate
SERVICE TECHNICIAN:	S. Duma			

FILTER / AREA	0,5 MICRON SIZE PARTICLES	1,0 MICRON SIZE PARTICLES	5,0 MICRON SIZE PARTICLES
Filter/Area 1			
Count 1	2390590	191386	777
Count 2	2679042	318960	1412
Count 3	2525934	276642	1200
Count 4	2199304	184653	848
	SINCE THE AVERAGE COUNTS FOR 0,5 MICRON SIZE PARTICLE IS LOWER THAN 3,520,000 (TAKING 95% UCL INTO ACCOUNT) THE CONDITIONS FOR THE ABOVE UNIT COMPLIES WITH ISO STANDARDS & CONDITIONS AS PER ISO 14644-1	SINCE THE AVERAGE COUNTS FOR 1,0 MICRON SIZE PARTICLE IS LOWER THAN 832,000 (TAKING 95% UCL INTO ACCOUNT) THE CONDITIONS FOR THE ABOVE UNIT COMPLIES WITH ISO STANDARDS & CONDITIONS AS PER ISO 14644-1	SINCE THE AVERAGE COUNTS FOR 5,0 MICRON SIZE PARTICLE IS LOWER THAN 29,300 (TAKING 95% UCL INTO ACCOUNT) THE CONDITIONS FOR THE ABOVE UNIT COMPLIES WITH ISO STANDARDS & CONDITIONS AS PER ISO 14644-1

AVERAGE VELOCITY:	-	M/Sec	MAGNAHELIC READING:	-	Pa	UNIT / AREA STATUS	Passed
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ADDITIONAL REMARKS:	0.5 and 1.0 micron passes under ISO 8 conditions. 5.0 micron passes under ISO 7 conditions.
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Yours faithfully

Sibusiso Duma

Approved by _____
(Client Signature)

MEMBERS: GC HANDS, LW GODDARD, RZ HLONGWA, B SCHOUW, A. WINTER & S. DUMA

Certificate No L76653

As Found/As Left

Rev 0

Description	Asset No	Cal due
Open Jet Wind Tunnel; Westi-Box; Humidity Temperature Sensor & 40 mm Pitot Tube. Software Revision 3.2.0	TS288	17 January 2020
Thermometer	TS064	03 September 2020

Procedure TS PL 030

Reference Velocity m/s	UUT Velocity m/s	Temperature °C	Humidity % rh	Barometric Pressure mbar	Air Density kg/m³	Correction Factor	Correction m/s	UoM ± m/s
0.00	0.00	25.6	51.8	854	0.989	NA	0.000	0.01
0.30	0.30	25.6	51.6	854	0.989	0.988	-0.004	0.02
0.50	0.50	25.6	51.7	854	0.989	0.995	-0.002	0.02
0.70	0.69	25.6	51.9	854	0.988	1.019	0.013	0.02
1.00	1.01	25.6	51.8	854	0.989	0.986	-0.014	0.03
3.00	3.03	25.4	52.5	854	0.989	0.991	-0.028	0.08
5.01	5.05	25.3	52.9	854	0.990	0.991	-0.043	0.13
10.00	10.21	25.3	52.7	854	0.990	0.979	-0.214	0.25
15.01	16.02	25.5	52.0	854	0.989	0.937	-1.015	0.38
19.99	21.83	26.0	50.4	854	0.987	0.916	-1.836	0.50
25.01	27.08	26.7	48.5	854	0.985	0.924	-2.067	0.63
				Average		0.9726	-0.4737	

Parameter	Reference Standard	UUT Reading	± UoM
Temperature (°C)	26.8	26.9	1
Humidity (% rh)	48.2	N/A	5

Status	Used
Comments	The correction must be added algebraically / correction factor multiplied with the UUT reading to obtain the corrected value. The Temperature, Humidity, Barometric Pressure and Air Density data are for informational purposes only and were used to calculate the reference air velocity and density. All measurement data are computed average values. Reference Conditions: 21.1 °C, 1013 mbar Compliance statements do not take the measurement uncertainty into account



5475 Airport Boulevard, Boulder, Colorado 80301-2339
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Customer Service Center 1.877.475.3317
Instrument Service and Support 1.800.557.6363

Certificate of Calibration

Date: Oct-11-2019 11:19:54

Customer Name: Vividair
Service Notes: None

Work Order: SA0184

Unit Under Test

Instrument: LasairII_310C
Firmware Version: PCE: B2B53624 1.9
Serial Number: 109108
Calibration Due: Oct-11-2020

Environmental

Temperature: 23 Deg C
Relative Humidity: 37%

Certification

Particle Measuring Systems certifies that the instrument listed above meets or exceeds manufacturing specifications and meets the requirements of ISO 21501-4:2007. It has been calibrated using equipment and/or standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST), or have been derived from acceptable values of natural physical constants, or by the ratio type of self-calibration. This instrument was calibrated in accordance with the Particle Measuring Systems quality system documentation which meets ISO9001:2008 requirements. This certificate may not be reproduced, except in full, without written consent from Particle Measuring Systems.

Calibration Standards

Procedure Used: Program Used: 1000013097 Rev K

Instrument Condition Received

☒ In-Tolerance ☐ Out-of-Tolerance ☐ Operational Failure

Particles Used

<u>Particle Size</u>	<u>Std Deviation</u>	<u>Lot Number</u>	<u>Expiration Date</u>	<u>Uncertainty</u>
0.303 micron	1.900	205483	Jan-31-2021	0.001
0.508 micron	1.700	205491	Jun-30-2020	0.008
0.994 micron	1.000	186953	Jul-31-2020	0.010
5.027 micron	1.000	194633	Feb-28-2021	0.010

References Used

<u>Type</u>	<u>Serial Number</u>	<u>Calibration Due</u>
LasairII-110	65588	Dec-26-2019
Flow Meter	40461201001	Jun-24-2020

Performed by

Technician Name: Albrecht Truter