



Membership

Nº.: 440777

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Report Reference Nº.: JD/220203-01 v2

Air Quality Monitoring Report

Details of Client and Project Site

Client:	Dr. Joe Doublet
Address:	60, Manwel Dimech Street, Sliema, SLM 1057, Malta
Project Site:	Gasparell Plant, Hal Far, Malta
Test Date(s):	09 December 2021

Indoor Air Quality	
Outdoor Air Quality	✓

ERA Integrated Pollution Prevention and Control (IPPC) Permit number: IP 0004/12/B

Legal Obligations and Limit Values

The plant's IPPC permit Clause 2.2.1.2 states that emissions to air from stationary sources shall only arise from the emission points specified in Table 2.2.1.

Table 2.2.1 : Emission points to air		
Emission point reference	Source	Location of emission point
1	Shredder plant diesel engine stack	As per Schedule 7
2	Four excavators (diesel engines) stacks	Mobile plants
3	Baling machine	As per Schedule 7

Clause 2.2.1.3 sets limits for emissions to air for the parameters of relevance. These are set out in Table 2.2.2. These limits relate to dry gas and volume flows without dilution and shall not be exceeded.

Table 2.2.2 : Emission limits to air and monitoring		
Emission point reference	Parameter	Limit ⁽¹⁾
1	Carbon Monoxide	-
1	Formaldehyde	60 mg/Nm ³
1	Oxides of Nitrogen	200 mg/Nm ³
1	Particulate Matter	50 mg/Nm ³

⁽¹⁾ All concentrations shall be corrected to 273.15K, 101.3 KPa, dry gas volume and to an oxygen content of 3%.

Clause 2.2.1.5 states that the operator shall monitor the parameters listed in Table 2.2.2 from emission point 1, including oxygen content, water content, flue velocity, flue gas volume, flue gas temperature and flue gas pressure at the point of discharge. In accordance with Clause 2.2.1.6, monitoring should be carried out every three years.

Job Description

Monitoring for all parameters from Stack EPR1 was carried out following the standard methods given in Table 1.

Table 1: Standard Methods used

Parameter	Standard Method
CO	EN 15058:2017
TPM	EN 13284-1:2017
NO _x	EN 14792:2017
Formaldehyde	EN ISO 17621:2015
Flue's physical parameters: flow rate, temperature, pressure	EN ISO 16911-1:2013
Humidity	EN 14790:2017
Oxygen	EPA 3A:2017

Operating Procedure

Measurement of the physical parameters of the flue gas includes the determination of the linear flow rate (m/s), the real flow (m³/s) [which is the product of the linear flow rate and the cross-sectional area of the duct], the temperature, the pressure, and the normalised flow (Nm³/s) [which is the real flow corrected to standard temperature and pressure {STP – 0 °C & 760 mm Hg}]. Measurements were carried out using an instant readout flowmeter (AMS Analitica Srl IsoFlow 201).

Sampling for TPM was carried out using a low-volume sampler (AMS Analitica S.r.l model Air Cube HE) by collecting a known volume of air with the pump onto a pre-conditioned and pre-weighed 47mm filter under isokinetic conditions using an appropriate probe fitted with a filter holder. This is necessary to disturb the flue as little as possible so that the same particles' concentration (no more and no less) go into the nozzle as would have passed the area of the nozzle had it not been there. The filter was later re-conditioned and re-weighed at the laboratory, with the mass difference being attributed to the dust collected in the sample. The filter was supplied by and returned to RPS Laboratories of Unit 12, Modwen Road, Salford Quays, Greater Manchester, M5 3EZ, England (UK). The laboratory is ISO 17025:2017 Accredited by UKAS, having Testing Laboratory N° 0605. This test is specifically accredited.

Formaldehyde was measured via active monitoring using an SKC sorbent 226-119 tube. Sampling was carried out using a single adjustable flow holder (SKC 224-26-01) connected to a low-volume sampler (SKC AirLite sample pump 110-100). The sampler was calibrated to low flow mode *in situ* using a Rotameter (SKC 393-0334), while the operating flow rate of 100 ml/min was then set and calibrated on the sample tube using a Field Rotameter (SKC 320-2A05). Sampling for moisture content was carried out using an absorption cartridge along the sampling train. The sampling media was supplied by and returned to Marchwood Scientific Services Ltd. of Unit 5, 60 Smithfold Lane, Worsley, Manchester, M28 0GP, England (UK). The laboratory is ISO 17025:2017 Accredited by UKAS, having Testing Laboratory N° 1668. This test is specifically accredited.

Sampling for CO, NO_x and O₂ was carried out using an instant readout sonde analyser (Anapol Gerätetechnik AG model EU-5000).

Calibration certificates of all equipment used are included with this report.

Sampling

Sampling was carried out on the 09th of December 2021.

Results

The physical parameters of the flue gas determined from the stack are given in Table 2.

Table 2: Physical parameters of the flue gas

Stack	EPR1
Sampling Date	09/12/2021
Sampling Time	13.45 pm
Stack Type	Circular
Stack Internal Diameter (cm)	40
Stack Orientation (Vertical/Horizontal)	Vertical
Mean Temperature Sampling Point (° C)	214
Mean Pressure Gas Sampling Point (hPa)	1001.4
Flow Rate (m/s)	5.70
Real Flow (m ³ /s)	0.7160
Normalized Flow (Nm ³ /s)	0.4822

The laboratory reports are annexed to this report. The results obtained are summarised in Table 3.

Table 3: Summary of results

Parameter	Results	Limits	Units
TPM	15.9	50	mg/Nm ³
Formaldehyde	0.099	60	mg/Nm ³
O ₂	16.6	n/a	%
CO	4298	-	mg/Nm ³
NO _x	1843	200	mg/Nm ³

All concentrations are corrected to 273K, 101.3 KPa, dry gas volume and to an oxygen content of 3%.
Measured levels were CO = 1896 mg/m³, NO_x = 813 mg/m³.

Inference

When the shredder is operational, more diesel is made to flow through the engine to supply the necessary torque, resulting in the production of CO due to incomplete combustion with the consumption of more O₂. The increase in combustion causes the rise in flue gas temperature and consequently in more ambient N₂ and O₂ combining to form NO_x.

None of the parameters tested for while the shredder was operational exceeded the stipulated limit values, except for NO_x. However, it is pertinent to note that while Emission Point 1 is termed “shredder plant diesel engine stack” – thus clearly specified as being an “engine” – the limit of 200 mg/Nm³ NO_x imposed is incorrect since it is taken from S.L. 549.122 Table 1, which is for plants with a rated thermal input between 1 – 5 other than engines and gas turbines. The limit for engines and gas turbines is given in S.L. 549.122 Table 3. The limit given is 190 mg/Nm³, but with a caveat n. 3 stating a limit of 1850 mg/Nm³ for engines constructed before 18 May 2006.

The engine in EP 1 is from 1984, as proven from the tag (a photograph of which is shown in Figure 1), and therefore the proper permissible limit should be 1850 mg/Nm³. Furthermore, as per initial description given in the paragraph above Table 1 in S.L. 549.122, plants other than engines have their oxygen content standardised to 3%, but engines have their oxygen content standardised to 15%.

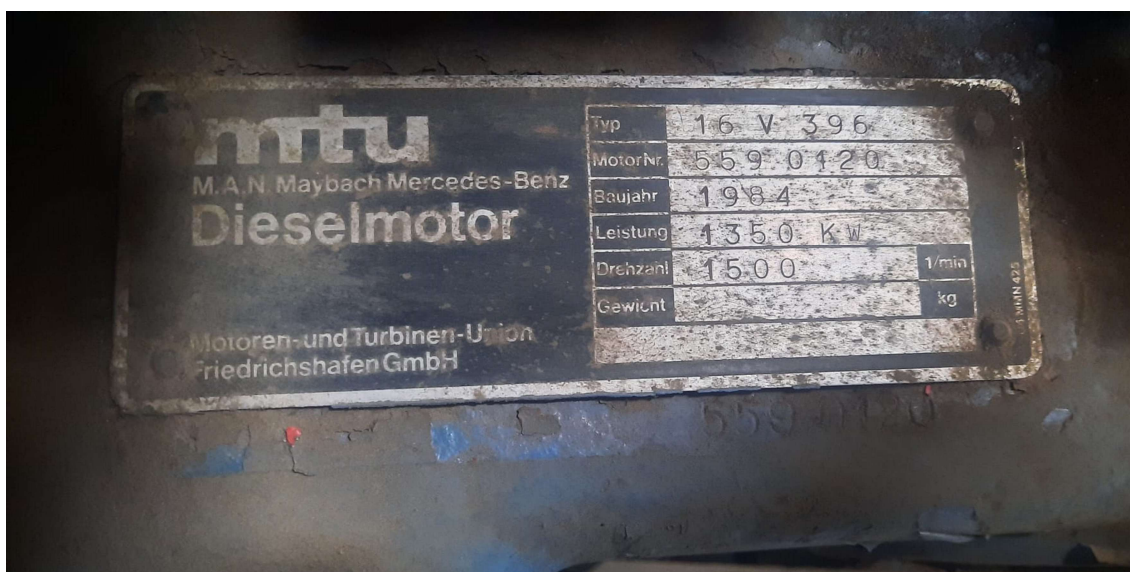


Figure 1: Photograph of the engine's tag

Therefore, recalculating to an oxygen content of 15% rather than 3%, the new results obtained are summarised in Table 4.

Table 4: Summary of recalculated results

Parameter	Results	Limits	Units
TPM	15.9	50	mg/Nm ³
Formaldehyde	0.099	60	mg/Nm ³
O ₂	16.6	n/a	%
CO	1433	-	mg/Nm ³
NO _x	614	200	mg/Nm ³

All concentrations are corrected to 273K, 101.3 KPa, dry gas volume and to an oxygen content of 15%. Measured levels were CO = 1896 mg/m³, NO_x = 813 mg/m³.

Thus, the correct standardised NO_x result should be 614 mg/Nm³, which is well within the applicable limit of 1850 mg/Nm³ given in S.L. 549.122.

Conclusion

The results obtained show that emission levels from EP 1 for TPM and Formaldehyde are well within the respective limit values stipulated in the IPPC Permit. The NO_x levels exceeded the limit stipulated in the IPPC; however, this limit is incorrect and not in accordance with the applicable legislation, S.L. 549.122. Upon applying the correct legal limit, the measured levels of NO_x are found to be well within the limit. No limit is stipulated for CO.

Report issued on: 08 March 2022

Name of Air Quality Consultant: Dr. Robert Cortis
B.Sc. (Hons.) M.Sc. Ph.D. MRSC

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- Authorised representatives of the abovementioned Client & Project Site
- Authorised representatives of the Environment and Resources Authority (ERA)

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Signed:

Isokinetic calculator IsoFlow 201 Pro calibration and test report

Rapporto di calibrazione e collaudo per misuratori di parametri isocinetici IsoFlow 201 Pro

Data / Date	21/12/2020
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Customer / Cliente	MR ROBERT CORTIS
Test procedure / Procedura n.	12/01/01
Date / Data	21/12/2020
Number of pages / Numero di pagine	2
AMS operator / Operatore AMS	MICHELETTI ALESSANDRO

Dati strumento / Instrument data

Manufacturer / Costruttore	AMS ANALITICA
Type of instrument / Modello strumento	ISOFLOW 201 PRO
Serial number / Numero di serie	00157

Environmental test conditions / Parametri ambientali alla prova

Temperature / Temperatura (°C)	20
Ambient pressure / Pressione atmosferica (mBar)	1026
Umidità relativa / Relative Humidity (UR%)	38%

Certified primary reference standard / Strumenti campione certificati utilizzati

Atmospheric pressure / Pressione atmosferica:

MesaLab Dry Cal Defender 520-L s/n 110731 Certificate ID 58964 del 21/01/2020
(ISO 17025 compliance)

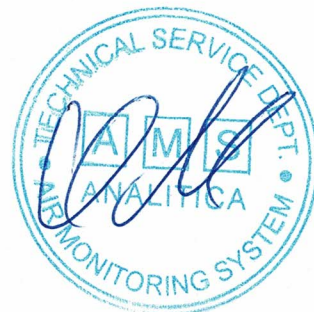
Temperature/ Temperatura:

Termometro TEMP5 S/N 171247 e sonda PT56L S/N 0986, Cert. LAT 20-ST-3546 del 09/11/2020
(ISO 17025 compliance)

Alleghiamo certificato "Er elettronica" per test di differenza di pressione, pressione statica, pressione assoluta, e verifiche di temperatura

We submit "Er elettronica" certificate for differential pressure test, static pressure, absolute pressure, and temperature tests

The isokinetic IsoFlow calculator on version 202 and 202-Pro fully comply with Iso-EN 16911, EPA 1 and EPA 2 requirements on flow rate detection and traverse points calculations.





SVILUPPO E PRODUZIONE SISTEMI ELETTRONICI
DI CONTROLLO E AUTOMAZIONE

Via Dismano, 114 P/M Tel. +39.0544.470095
48124 Ravenna - Italy Fax +39.0544.62211
E-mail: info@er-elettronica.it Web: www.er-elettronica.it

Isokinetic calculator IsoFlow calibration and test report

Rapporto di calibrazione e collaudo per misuratori di parametri isocinetici IsoFlow 201 pro

Date / Data	17/12/2020
Customer / Cliente	Mr. Robert Cortis Birkirkara BKR 1530 (Malta)
Test procedure / Procedura n.	001
Date / Data	17/12/2020
Number of pages / Numero di pagine	2
ER operator / Operatore ER	Benini

Dati strumento / Instrument data

Manufacturer / Costruttore	Er elettronica s.r.l
Type of instrument / Modello strumento	Isoflow 201 Pro
Serial number / Numero di serie	00157

Environmental test conditions / Parametri ambientali alla prova

Temperature / Temperatura (°C)	20,9
Ambient pressure / Pressione atmosferica (mBar)	1026,06
Relative Humidity / Umidità relativa (UR%)	42%

Calibration test performance results / Risultati prova di calibrazione

Differential pressure test (mm/H₂O a 20°C) / Test pressione differenziale (mm/H₂O a 20°C)

Acceptance / Accettazione: 1%

Test Point	Reference value Valore di riferimento	Tested Instrument Strumento in verifica	Error (Δ) Errore (Δ)	Error (%) Errore (%)
1	10	10,03	0,03	0,30
2	20	20,03	0,03	0,15
3	40	40,05	0,05	0,12
4	70	70,05	0,05	0,07
5	100	100,05	0,05	0,05

Absolute pressure test (mBar a 20 °C) / Test pressione assoluta (mBar a 20 °C)

Acceptance / Accettazione: 1%

Test Point	Reference value Valore di riferimento	Tested Instrument Strumento in verifica	Error (Δ) Errore (Δ)	Error (%) Errore (%)
1	1026,06	1025,9	-0,16	0,02



SVILUPPO E PRODUZIONE SISTEMI ELETTRONICI
DI CONTROLLO E AUTOMAZIONE
Via Dismano, 114 P/M Tel. +39.0544.470095
48124 Ravenna - Italy Fax +39.0544.62211
E-mail: info@er-elettronica.it Web: www.er-elettronica.it

Temperature test (°C) / Test temperatura (°C): TS Stack temperature
Acceptance / Accettazione: 1%

Test Point	Reference value Valore di riferimento	Tested Instrument Strumento in verifica	Error (Δ) Errore (Δ)	Error (%) Errore (%)
1	45,4	45,6	0,2	0,44
2	119,3	119,5	0,2	0,17
3	308,7	309	0,3	0,10
4	508,1	508,4	0,3	0,06
5	900,6	900,9	0,3	0,03

Certified primary reference standard / Strumenti campione certificati utilizzati

Absolute pressure / Pressione assoluta:

Wika CPC 6050 s/n 41000GFY – Sensor s/n 41000FZ8 Cal. Cert. LAT 051 C11920BE50 (ISO 17025 compliance)

Differential pressure / Pressione differenziale:

Wika CPC 6050 s/n 41000GFY – Sensor s/n 41000D0B Cal. Cert. LAT 051 C11920A380 (ISO 17025 compliance)

Temperature / Temperatura:

Fluke Mod. 54II s/n 74380028 Cal. Cert. ID LAT 024 0651T17 (ISO 17025 compliance)



anapol Gerätetechnik AG
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Fax +41 (0)32 374 25 47
www.anapol.ch

Certificate of verification

flue gas analysers and soot pumps for firing installations

Control n° 31909

In accordance with the Federal Act governing measuring practice and the verification regulation

1. Characteristics:

Manufacturer:	anapol	Type EU-5000	No of the device	5000600
homologated by:	metas		Registration number	S-48
Control carried out	27.01.2021		Expiration of control:	27.01.2022
Owner of device:	Robert Cortis Industrail & Environmental Chemist; 7, Little Danny Fl.2; MLT-BKR 1530 Birkirkara - Malta <small>Robert Cortis Industrail & Environmental Chemist; 7, Little Danny Fl.2; MLT-BKR 1530 Birkirkara - Malta</small>			

2. Visual control

Device ok

3. Electrothermometers

Device ok

metas requirements:	from 0°C to 100°C	± 3°C
	from 100°C to 200°C	± 3% of measured value
	from 200°C to 350°C	± 6°C

Checking of the flue gas thermometer

☒ complied

Checking of the ambient temperature probe

☒ complied

Checking of the auxiliary thermometer

☐ complied

4. Soot volume

Device ok

metas requirement : sample volume 5.75 ± 0.40 l (litres) exh. fumes per cm^2 of used filter surface in max. 2 min

Soot stain 6 mm diameter = used filter surface of $0.28 \text{ cm}^2 = 1.63$ litres ± 0.11 l

Soot stain 16 mm diameter = used filter surface of $2 \text{ cm}^2 = 11.5$ litres ± 0.80 l

5. Gas measurement

Device ok

metas requirement	O ₂	± 0,4 % vol across the entire range
	CO ₂	± 0,05 x l % vol minimum ± 0.30 % vol.
	CO	± 0,08 x l % vol minimum ± 10 ppm if put into operation after 1.8.92 & 12 ppm before 1.8.92
	NO	± 0,08 x l % vol minimum ± 7 ppm
	NO ₂	± 7 ppm across the entire range

6. Evaluation

The measurement device complies with the requirements of metas and may be utilized for the official control of the heating installations.

Date of issue

27.01.2021

Prudente Gioele

Verification laboratory F 10 accredited by the Swiss Confederation
for exhaust fume devices for the control of heating installations



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Fax +41 (0)32 374 25 47
www.anapol.ch

Test report

Control n° 31909

in accordance with the prescriptions of the Swiss Verification Service

Measurement data issuing from the verification of analysers for exhaust fumes for heatings

As per operating approval and directions for exhaust fumes analysers for heating installations operating with fuel « extra light » and natural gas.

The stated measurement values are only those obtained during the verification and do not signify any calibration. The only determining fact : « The measurement device complies with the requirements of metas »

1. Characteristics:

Manufacturer	anapol	Owner	Robert Cortis Industrail & Environmental Chemist; 7, Little Danny Fl.2; MLT-BKR 1530 Birkirkara - Malta
Type	EU-5000	15293	
No of the device	5000600	User	Robert Cortis Industrail & Environmental Chemist; 7, Little Danny Fl.2; MLT-BKR 1530 Birkirkara - Malta
metas approval	YES	15293	
Registration number	S-48		

GeräteBenutzer:

Initial verification NO Periodical verification YES Subsequent verification NO

2. Visual control

General state ok	YES	Sealed	YES
Valid service sticker	YES	Extension form admitted	YES
Admitted version of software	YES	Accessories admitted	
Type plate ok	YES	Sealing test ok	YES
Function ability ok	YES	Conversion factors	YES
Direction of use in device	YES	Owners address in device	
Device ok	YES	Remarks:	
Device refused	NO		

3. Electrothermometers

metas requirements:	from 0°C to 100°C	± 3°C
	from 100°C to 200°C	± 3% of measured value
	from 200°C to 350°C	± 6°C

Exhaust gas thermometer 0 - 350 °C

thermostability only with new probes: stabilized: YES

Required value °C	calibration adjustment °C	Adjusted reference value °C	Indication device °C	Difference °C	Requirement complied
50.5	0.2	50.7	51.7	1.0	YES
199.8	0.3	200.1	203.0	2.9	YES

Ambient temperature thermometer 0 - 50 °C

Required value °C	calibration adjustment °C	Adjusted reference value °C	Indication device °C	Difference °C	Requirement complied
22.1	0.1	22.2	22.5	0.3	YES
50.5	0.2	50.7	50.7	0.0	YES
0.0		0.0		0.0	YES

**auxiliary thermometer****Control n° 31909**

Required value °C	calibration adjustment °C	Adjusted reference value °C	Indication device °C	Difference °C	Requirement complied
					YES YES YES

Device ok YES
Device refused NO

Remarks:

4. Soot volumemetas requirement : sample volume 5.75 ± 0.40 l (litres) exh. fumes per cm^2 of used filter surface in max. 2 minSoot stain 6 mm diameter = used filter surface of $0.28 \text{ cm}^2 = 1.63 \text{ litres} \pm 0.11 \text{ l}$ Soot stain 16 mm diameter = used filter surface of $2 \text{ cm}^2 = 11.5 \text{ litres} \pm 0.80 \text{ l}$

Sampling time s	Sample volume l	Calibration adjustment l	Calibr.-corr. gasometer in l	Sample volume adjusted required value in l	Difference l
		0.00 0.00 0.00	0.00 0.00 0.00		0.00 0.00 0.00

devices with compensation of flow resistance: soot stain 6 mm diameter: $1.63 \text{ litre} \pm 0.17 \text{ l}$

		0.00 0.00	0.00 0.00	0.000	0.00 0.00
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Device ok YES
Device refused NO
Device not verified YE

Remarks:

5. Gas measurement

metas requirement

- O_2 ± 0.4 % vol across the entire range
- CO_2 $\pm 0.05 \times 1$ % vol minimum ± 0.30 % vol.
- CO $\pm 0.08 \times 1$ % vol minimum ± 10 ppm if put into operation after 1.8.92 & 12 ppm before 1.8.92
- NO $\pm 0.08 \times 1$ % vol minimum ± 7 ppm
- NO_2 ± 7 ppm across the entire range

Gas	Concentration	Indication t90	Reading	Tolerance	Difference	Appreciation
O_2 %	9.0	8.8	8.8	0.4	-0.2	YES
O_2 %	4.0	3.9	3.8	0.4	-0.2	YES
CO ppm	75	73	75	8	0	YES
CO ppm	401	395	404	28	3	YES
$\text{CO}/\text{H}_2/\text{O}_2$	-			-	0	YES
NO ppm	65	63	64	6	-1	YES
NO ppm	160	158	159	11	-1	YES

Device ok YES
Device refused NO

Remarks:

6. Evaluation**The device complies with the metas requirements****YES**

see point:

Remarks:

Verification date
27.01.2021

Date of issue
27.01.2021

Prudente Gioele

Air Cube calibration and test report

Rapporto di calibrazione e collaudo per campionatori Air Cube

Data / Date	05/02/2021
Customer / Cliente	MR. ROBERT CORTIS B.SC (HONS) M.SC.MRSC AIR QUALITY CONSULTANT
Test procedure / Procedura n.	I02/01/01
Date / Data	05/02/2021
Number of pages / Numero di pagine	2
AMS operator / Operatore AMS	ANDI SHKOZA

Dati strumento / Instrument data

Manufacturer / Costruttore	AMS ANALITICA
Type of instrument / Modello strumento	AIRCUBE HE
Serial number / Numero di serie	17-AIRCHE-002

Environmental test conditions / Parametri ambientali alla prova

Temperature / Temperatura (°C)	21
Ambient pressure / Pressione atmosferica (mBar)	1015
Umidità relativa / Relative Humidity (UR%)	31%

Temperature test (°C) / Test temperatura (°C): T Stack temperature

Acceptance / Accettazione: 1%

Test Point	Reference value Valore di riferimento	Tested Instrument Strumento in verifica	Error (Δ) Errore (Δ)	Error (%) Errore (%)
1	21	21	0	0,00

Sampler flow rate calibration / Calibrazione flussi campionatore

Acceptance / Accettazione: 2%

Test Point	Reference value Valore di riferimento	Tested Instrument Strumento in verifica	Error (Δ) Errore (Δ)	Error (%) Errore (%)
1	10,4	10,2	-0,2	1,92
2	15,2	15,4	0,2	1,32
3	25,4	25	-0,4	1,57
4	35,8	35,2	-0,6	1,68
5	46,1	45,8	-0,3	0,65
6	51,2	50,8	-0,4	0,78

Certified primary reference standard / Strumenti campione certificati utilizzati

Atmospheric pressure / Pressione atmosferica:

MesaLab Dry Cal Defender 520-L s/n 110731 Certificate ID 58964 del 21/01/2020
(ISO 17025 compliance)

Temperature/ Temperatura:

Termometro TEMP5 S/N 171247 e sonda PT56L S/N 0986, Cert. LAT 20-ST-3546 del 09/11/2020
(ISO 17025 compliance)

Certified reference flow calibrator / Calibratore di flusso certificate:

MesaLab Deltacal DC100 s/n 160488 Certificate ID 61191/61193 del 01/05/2020
(ISO 17025 compliance)

A seguito delle prove effettuate lo strumento risulta perfettamente funzionante e conforme alla norma UNI EN 12919-2001.



TEST CERTIFICATE

AirLite Pump


This certifies that the product listed below has been tested fully within the controls detailed in our ISO 9001 (certified by BSI, certificate number: FM 24816) Quality Management System and is in accordance with factory specifications. SKC test equipment is calibrated in accordance with ISO/IEC 17025 with traceability to UK national standards.

Model Number	Serial Number	SKC Reference Number
110-100	882356	148136

Functional Checks					
Test	Pass	Test	Pass	Test	Pass
Battery Compartment	✓	Flow Fault	✓	Maximum Free Flow	✓
Leak	✓				

Flow Compensation Performance				
Settings		Acceptance Criteria		
Flow Rate ml/min	Back Pressure inches of water	Minimum ml/min	Measured Flow ml/min	Maximum ml/min
1000	0		1000	
	30	950	1000	1050
2000	0		2000	
	20	1900	2000	2100
3000	0		3000	
	10	2850	2900	3150
Ambient Temperature °C		Atmospheric Pressure mbar		Relative Humidity %
20.0		1006.5		63.6

Test Equipment Used			
0PI03A	Pneumatic Test Kit	Calibration date 10/06/21	
0PI03B	Pneumatic Test Kit	Calibration date 09/06/21	✓
0PI03C	Pneumatic Test Kit	Calibration date 10/06/21	
0PI04	Pressure, Temperature & Humidity Meter	Calibration date 16/10/20	
0PI59A	Pressure, Temperature & Humidity Meter	Calibration date 21/06/21	
0PI59B	Pressure, Temperature & Humidity Meter	Calibration date 16/09/20	
0PI95A	Pressure, Temperature & Humidity Meter	Calibration date 08/03/21	
0PI95B	Pressure, Temperature & Humidity Meter	Calibration date 08/03/21	✓

Authorised Signatory	Name	Date
	J G GODFREY	07/10/2021