KI-DISCUS™

CERTIFICATE OF TEST & CALIBRATION

Appliance	KI-Discus MK2		**Serial Number**	K11930055	
Customer	Air Science				
Date of Issue	19th August 2026		**Certificate Number**	**CTQ** 4144	
Temperature	21.1 °C	**Humidity**	62 %	**Supply Voltage**	237 V
Calibration Technician	D.Ashcroft				

The unit under test will be subject to the Standard Ki-Discus test procedures. These procedures cover (1) Nebuliser/Disc Clearance (2) Disc Rotation Speed (3) Mechanical Gauge Reading (4) Pump Delivery (5) Vacuum at Sensor Heads

TEST	PARAMETERS	RESULTS	
		As found	As left
(1) Nebuliser/Disc Clearance	0.10 mm ± 0.05 mm	0.10 mm	0.10 mm
(2) Disc Rotation Speed	28,000 RPM ± 500 RPM	27,780 RPM	28,020 RPM
(3) Vacuum Gauge	-20.0 mbar ± 0.5 mbar	-20.0 mbar	-20.0 mbar
(4) Pump Delivery	20.0 ml ± 1.0 ml in 9m 00s ± 15s	17.0 ml in 8m 50s	20.0 ml in 8m 54s
(5) Vacuum at Sensor Heads	-20.0 mbar ± 1.5 mbar	-20.0 mbar	-20.0 mbar

This equipment has passed all Standard Internal Functional and Calibration Tests and is compliant with the product specification.

DATE OF CALIBRATION	19th August 2026
NEXT CALIBRATION DUE DATE	19th August 2027

Approved Signatory H.Twiss-Savage

Signature H Twiss-Savage

Test Equipment	Calibration Company	*Serial no.*	Calibration Expiry Date
(1) Feeler Gauge	Absolute Calibration	1931787/252	07 April 2027
(2) Frequency Counter	Compli Group Ltd.	469488	13 January 2027
(3) Digital Manometer	Absolute Calibration	57235	07 April 2027

CTS Europe Ltd certifies the above instruments meet correct specifications and have been calibrated using instruments of known accuracies, which are traceable to UKAS accreditation.
Uncertainties: Reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor K=2, providing a level of confidence of approximately 95%.The uncertainty evaluation has been carried out in accordance to UKAS requirements;
Digital Manometer: Uncertainty is [0.01% of the applied pressure + 0.43 mbar (+ resolution of the instrument of 0.1 mbar)]. The reported expanded uncertainty is based on standard uncertainty multiplied by a coverage factor k=2 providing a level of confidence of approximately 95%.
Frequency counter: Measurement uncertainties in range: 10 Hz to 100 kHz:± (1 in 106 + 1 L.S.D). Uncertainties quoted refer to values applied under test. The L.S.D. component of the above measurement uncertainties refers to the display resolution of the instrument under test.
Feeler gauge: Uncertainty of measurement:± 0.002 mm. Digital ext. Micrometer: Uncertainty of measurement: Micrometer : ± 0.002 mm, flatness: ± 0.0003 mm, parallelism: ±0.0008 mm.