

TSI Instruments Ltd., Stirling Road, Cressex Business Park, High Wycombe, Bucks HP12 3RT England Tel: (Int +44)(UK 0) 1494 459200 Fax: (Int +44)(UK 0) 1494 459700 www.tsiinc.co.uk

ENVIRONMENT CONDITION		
TEMPERATURE	67.0	° F
RELATIVE HUMIDITY	43.8	% RH
BAROMETRIC PRESSURE	29.5	inHg

MODEL	AccuBalance [®] 8380
SERIAL NO.	T83801750005

CALIBRATION STANDARDS USED	
Capture Hood Calibration System UK1	

As Left	☑ IN TOLERANCE	٦
☐ AS FOUND	☐ OUT OF TOLERANCE	

	CALIBRATION DATA Tolerance: ± (3% of reading + 7.0 cfm)					
TESTING	SUPPLY DATA MEASURED IN ft ³ /min		RETURN DATA MEASURED IN ft ³ /n		IN ft ³ /min	
POINTS	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE
1	1903	1953	1839 ~ 1967	1900	1889	1836 ~ 1964
2	1501	1536	1449 ~ 1553	1495	1486	1444 ~ 1546
3	1197	1218	1155 ~ 1239	1193	1192	1151 ~ 1235
4	898	912	865 ~ 931	896	903	863 ~ 929
5	598	606	574 ~ 622	604	612	579 ~ 629
6	301	302	285 ~ 317	300	302	284 ~ 316

^{*} Indicates out of tolerance condition

90~110

100

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to members of the European co-operation for Accreditation (EA) for example: UKAS, SWEDAC, DAkkS) or has been verified with respect to instrumentation whose accuracy is traceable to some member of EA, or is derived from accepted values of physical constants. TSI's calibration system meets ISO-9001:2015 and meets the requirements of ISO 10012:2003.

90 ~ 108

Measurement Variable	System ID Number	Date Last Calibrated	Calibration Due Date
DC Voltage	E006072	06-08-23	06-08-24
Thermometer	E006103	01-31-23	01-31-24
Pressure	E006155	07-31-23	07-31-24
Pressure	E006095	06-08-23	06-08-24
Flow	E004014	04-04-23	04-04-27
Flow	E004013	04-14-23	04-14-27
Barometric Pressure	E006061	06-08-23	06-08-24
Calibration procedure used:	9011156		

Calibrated By

101

Dec. 19, 2023

100

Calibration Date



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ENVIRONMENT CONDITION		united to
TEMPERATURE	19.4	°C
RELATIVE HUMIDITY	43.8	% RH
BAROMETRIC PRESSURE	998	hPa

MODEL	AccuBalance [®] 8380
SERIAL NO.	T83801750005

CALIBRATION STANDARDS USED	
Capture Hood Calibration System UK1	

As Left	☑ IN TOLERANCE	
☐ As Found	OUT OF TOLERANCE	

CALIBRATION DATA Tolerance: ± (3% of reading + 11.9 m³/h)						
TESTING	SUPPLY DATA MEASURED IN m ³ /h			RETURN DATA MEASURED IN m ³ /		D IN m ³ /h
POINTS	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE
1	3233	3318	3125 ~ 3341	3228	3209	3120 ~ 3336
2	2550	2610	2462 ~ 2638	2540	2525	2452 ~ 2628
3	2034	2069	1962 ~ 2106	2027	2025	1955 ~ 2099
4 .	1526	1549	1469 ~ 1583	1522	1534	1465 ~ 1579
5	1016	1030	974 ~ 1058	1026	1040	984 ~ 1068
6	511	513	484 ~ 538	510	513	483 ~ 537
7	168	172	152 ~ 184	170	170	154 ~ 186

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Pressure	E006155	07-31-23	07-31-24
Pressure	E006095	06-08-23	06-08-24
Flow	E004014	04-04-23	04-04-27
Flow	E004013	04-14-23	04-14-27
Flow	E006061	06-08-23	06-08-24

Calibration procedure used: 9011156

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ENVIRONMENT CONDITION		
TEMPERATURE	19.4	°C
RELATIVE HUMIDITY	43.8	% RH
BAROMETRIC PRESSURE	998	hPa

MODEL	AccuBalance [®] 8380		
SERIAL NO.	T83801750005		

CALIBRATION STANDARDS USED	
Capture Hood Calibration System UK1	

As Left	☑ IN TOLERANCE	
☐ As Found	OUT OF TOLERANCE	

	CALIBRATION DATA Tolerance: ± (3% of reading + 3.3 Vs)						
TESTING	SUPP	SUPPLY DATA MEASURED IN 1/s			RETURN DATA MEASURED IN 1/s		
POINTS	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	
1	898	922	868 ~ 928	897	892	867 ~ 927	
2	708	725	684 ~ 732	706	701	682 ~ 730	
3	565	575	545 ~ 585	563	563	543 ~ 583	
4	424	430	408 ~ 440	423	426	408 ~ 438	
5	282	286	271 ~ 293	285	289	274 ~ 296	
6	142	143	135 ~ 149	142	143	135 ~ 149	
7	47	48	43 ~ 51	47	47	43 ~ 51	

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Pressure	E006095	06-08-23	06-08-24
Flow	E004014	04-04-23	04-04-27
Flow	E004013	04-14-23	04-14-27
Barometric Pressure	E006061	06-08-23	06-08-24
Calibration procedure used:	9011156		

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Environment Condition		
TEMPERATURE	69.0	° F
RELATIVE HUMIDITY	42.4	% RH
BAROMETRIC PRESSURE	29.79	inHg

MODEL	AccuBalance® 8380
SERIAL NO.	T83801750005

CALIBRATION STANDARDS	USED
Manometer Calibration	Bench PRESSURE02-02

As Left	☑ IN TOLERANCE	
☐ As Found	OUT OF TOLERANCE	

	CALIBRATION DATA					
TESTING	BAROMETRIC PRESSURE MEASURED IN in.Hg			DIFFERENTIAL PRESSURE MEASURED IN in.H2C		
POINTS	CALIBRATION STANDARD	Instrument Output	ALLOWABLE RANGE	CALIBRATION STANDARD	Instrument Output	Allowable Range
1	20.15	20.14	19.75 ~ 20.55	0.1084	0.1097	0.1061 ~ 0.1107
2	29.77	29.77	29.18 ~ 30.36	0.454	0.457	0.445 ~ 0.463
3	34.47	34.46	33.79 ~ 35.15	2.92	2.93	2.86 ~ 2.98
4				12.1	12.1	11.9 ~ 12.3
5			10.00	14.3	14.3	14.0 ~ 14.6

TESTING	TEMPERATURE MEASURED IN °F				
POINTS	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE		
1	5.0	5.0	4.5 ~ 5.5		
2	77.0	76.9	76.5 ~ 77.5		
3	158.0	157.9	157.5 ~ 158.5		

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Measurement Variable	System ID Number	Date Last Calibrated	Calibration Due Date
DC Voltage	E006185	08-06-23	08-06-24
DC Voltage	E006185	08-06-23	08-06-24
Pressure	E006193	08-06-23	08-06-24
Pressure	E006030	08-06-23	08-06-24

Calibration procedure used: 9011158A

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Environment Condition		
TEMPERATURE	20.6	° C
RELATIVE HUMIDITY	42,4	% RH
BAROMETRIC PRESSURE	1008	hPa

MODEL	AccuBalance® 8380	
SERIAL NO.	T83801750005	

CALIBRATION STANDARDS	USED
Manometer Calibration	Bench PRESSURE02-02

As Left	☑ In Tolerance	٦
☐ As Found	OUT OF TOLERANCE	

CALIBRATION DATA						
TESTING POINTS	BAROMETRIC PRESSURE MEASURED IN hPa			DIFFERENTIAL PRESSURE MEASURED IN Pa		
	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE
1	682	682	668 ~ 696	27.00	27.32	26.44 ~ 27.56
2	1008	1008	988 ~ 1028	113	114	111 ~ 115
3	1167	1167	1144 ~ 1190	727	730	712 ~ 742
4			*	3014	3014	2954 ~ 3074
5		7		3562	3562	3491 ~ 3633

TESTING POINTS	TEMPERATURE MEASURED IN °C			
	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	
1	-15.0	-15.0	-14.7 ~ -15.3	
2	25.0	24.9	24.7 ~ 25.3	
3	70.0	69.9	69.7 ~ 70.3	

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DC Voltage	E006185	08-06-23	08-06-24
DC Voltage	E006185	08-06-23	08-06-24
Pressure	E006193	08-06-23	08-06-24
Pressure	E006030	08-06-23	08-06-24

Calibration procedure used: 9011158A

Calibrated By

Dec. 18, 2023

Calibration Date