LEONHARDT COMPANY, INC.
892 Worcester Street, Suite 220
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Tel: (781) 237-7200 ~ Fax: (781) 237-3399

Fume Hood Testing and Certification Report

Facility: **Woods Hole Oceanographic Inst.**
Building: **R/V ATLANTIS**
Room #: **HYDRO LAB**
Hood #: **H-1**

Test Date: 8/9/18
Re-Certification Due Date: 8/9/2019
Hood Manufacturer: LABCONCO
Velocity Sensor Manufacturer: None
Sash Type: ☑ Vertical ☐ Horizontal ☐ Combo

Testing Services Performed

Velocity Profile: ☑ Pass ☐ Fail ☐ N/A
Sash Height: 18" Sash Width 41 1/2"
Sash Height authorized by: Rick Galat - Facilities
Sash Operation: ☑ Operational ☐ Non-operational
Hood Lighting: ☑ Operational ☐ Non-operational

☐ ANSI/AIHA Z9.5-92
☑ SEFA 1.2-1996

Face Velocity Sensor Calibrated: ☐ Yes ☑ No

Certification Criteria:
- Acceptable face velocities on standard hood 90-110 FPM
- Acceptable face velocities on "Air Sentry" hood 70 FPM (+/- 10%).
- Sash height may be modified within reason to achieve face velocities.
- Target sash height is 20".

Service Remarks:
No face velocity monitor

Face Velocity Profile

118	117	118

Velocity Totals: 353
No. of Readings: 3
Average Face Velocity: **118**

Instrumentation

Test Instrument: Shortridge
Model No.: ADM 860
Serial No.: M01411

Calibration Date: 5/1/18
Calibration Due Date: 5/1/19

Note: The velgrid accessory samples air velocity over a one square foot area.
Therefore only **three** readings are required to obtain an accurate average face velocity.

Technician: *Chris Corrigan*

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Fume Hood Testing and Certification Report

Facility:	**Woods Hole Oceanographic Inst.**	Test Date:	8/9/18
Building:	**R/V ATLANTIS**	Re-Certification Due Date:	8/9/2019
Room #:	**WET LAB**	Hood Manufacturer:	HAMILTON
Hood #:	**H-2**	Velocity Sensor Manufacturer:	None

Sash Type: ☑ Vertical ☐ Horizontal ☐ Combo

Testing Services Performed

Velocity Profile: ☑ Pass ☐ Fail ☐ N/A ☐ ANSI/AIHA Z9.5-92 ☑ SEFA 1.2-1996

Sash Height: 14 1/2" Sash Width 32 1/2"

Sash Height authorized by: Rick Galat - Facilities

Sash Operation: ☑ Operational ☐ Non-operational

Hood Lighting: ☑ Operational ☐ Non-operational

Face Velocity Sensor Calibrated: ☐ Yes ☑ No

Certification Criteria:
- Acceptable face velocities on standard hood 90-110 FPM
- Acceptable face velocities on "Air Sentry" hood 70 FPM (+/- 10%).
- Sash height may be modified within reason to achieve face velocities.
- Target sash height is 20".

Service Remarks:

No face velocity monitor

Face Velocity Profile

92	96	98

Velocity Totals:	286
No. of Readings:	3
Average Face Velocity:	**95**

Instrumentation

Test Instrument:	Shortridge	Calibration Date:	5/1/18
Model No.:	ADM 860	Calibration Due Date:	5/1/19
Serial No.:	M01411		

Note: The velgrid accessory samples air velocity over a one square foot area.
Therefore only **three** readings are required to obtain an accurate average face velocity.

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Fume Hood Testing and Certification Report

Facility: **Woods Hole Oceanographic Inst.**
Building: **R/V ATLANTIS**
Room #: **MAINE LAB**
Hood #: **H-3**

Test Date: 8/9/18
Re-Certification Due Date: 8/9/2019
Hood Manufacturer: LABCONCO
Velocity Sensor Manufacturer: None
Sash Type: ☑ Vertical ☐ Horizontal ☐ Combo

Testing Services Performed

Velocity Profile: ☑ Pass ☐ Fail ☐ N/A
Sash Height: 13" Sash Width 41"
Sash Height authorized by: Rick Galat - Facilities
Sash Operation: ☑ Operational ☐ Non-operational
Hood Lighting: ☑ Operational ☐ Non-operational

☐ ANSI/AIHA Z9.5-92
☑ SEFA 1.2-1996

Face Velocity Sensor Calibrated: ☐ Yes ☑ No

Certification Criteria:
- Acceptable face velocities on standard hood 90-110 FPM
- Acceptable face velocities on "Air Sentry" hood 70 FPM (+/- 10%).
- Sash height may be modified within reason to achieve face velocities.
- Target sash height is 20".

Service Remarks:
No face velocity monitor

Face Velocity Profile

93	96	95

Velocity Totals: 284
No. of Readings: 3
Average Face Velocity: **95**

Instrumentation

Test Instrument: Shortridge
Model No.: ADM 860
Serial No.: M01411

Calibration Date: 5/1/18
Calibration Due Date: 5/1/19

Note: The velgrid accessory samples air velocity over a one square foot area.
Therefore only **three** readings are required to obtain an accurate average face velocity.

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Fume Hood Testing and Certification Report

Facility:	**Woods Hole Oceanographic Inst.**	Test Date:	8/9/18
Building:	**R/V ATLANTIS**	Re-Certification Due Date:	8/9/2019
Room #:	**BIO-CLEAN LAB**	Hood Manufacturer:	HAMILTON
Hood #:	**H-4**	Velocity Sensor Manufacturer:	None

Sash Type: ☑ Vertical ☐ Horizontal ☐ Combo

Testing Services Performed

Velocity Profile: ☑ Pass ☐ Fail ☐ N/A ☐ ANSI/AIHA Z9.5-92 ☑ SEFA 1.2-1996

Sash Height: 18" Sash Width 39"

Sash Height authorized by: Rick Galat - Facilities

Sash Operation: ☑ Operational ☐ Non-operational

Hood Lighting: ☑ Operational ☐ Non-operational

Face Velocity Sensor Calibrated: ☐ Yes ☑ No

Certification Criteria:
- Acceptable face velocities on standard hood 90-110 FPM
- Acceptable face velocities on "Air Sentry" hood 70 FPM (+/- 10%).
- Sash height may be modified within reason to achieve face velocities.
- Target sash height is 20".

Service Remarks:

No face velocity monitor

Face Velocity Profile

119	118	117

Velocity Totals: 354
No. of Readings: 3
Average Face Velocity: **118**

Instrumentation

Test Instrument: Shortridge — Calibration Date: 5/1/18
Model No.: ADM 860 — Calibration Due Date: 5/1/19
Serial No.: M01411

Note: The velgrid accessory samples air velocity over a one square foot area.
Therefore only **three** readings are required to obtain an accurate average face velocity.

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Vented Work Station Testing and Certification Report

Facility:	**Woods Hole Oceanographic Inst.**	Test Date:	8/9/18
Building:	**R/V ATLANTIS**	Re-Certification Due Date:	8/9/2019
Room #:	**ISOTOPE VAN**	Hood Manufacturer:	FLOW SCIENCES
Hood #:	**H-5 FLOW SCIENCE**	Velocity Sensor Manufacturer:	None
	VENTED WORK STATION	Sash Type:	☑ Vertical ☐ Horizontal ☐ Combo

Testing Services Performed

Velocity Profile: ☑ Pass ☐ Fail ☐ N/A ☐ ANSI/AIHA Z9.5-92 ☐ SEFA 1.2-1996

Sash Height: _____ Sash Width _____

Sash Height authorized by: Rick Galat - Facilities

Sash Operation: ☑ Operational ☐ Non-operational

Hood Lighting: ☑ Operational ☐ Non-operational

Face Velocity Sensor Calibrated: ☐ Yes ☑ No

Certification Criteria:
- Acceptable face velocities on standard hood 90-110 FPM
- Acceptable face velocities on "Air Sentry" hood 70 FPM (+/- 10%).
- Sash height may be modified within reason to achieve face velocities.
- Target sash height is 20".

Service Remarks:
fan on high speed
No face velocity monitor
All cowlings need to be opened 100%

Face Velocity Profile

19"			8"
108	98	101	132

	19"	8"
Velocity Totals:	307	132
No. of Readings:	3	1
Average Face Velocity:	102	132

Instrumentation

Test Instrument:	Shortridge	Calibration Date:	5/1/18
Model No.:	ADM 860	Calibration Due Date:	5/1/19
Serial No.:	M01411		

Note: The velgrid accessory samples air velocity over a one square foot area.
Therefore only **3/1** readings are required to obtain an accurate average face velocity.

Technician: *Chris Corrigan*

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Fume Hood Testing and Certification Report

Facility:	**Woods Hole Oceanographic Inst.**	Test Date:	8/9/18
Building:	**R/V ATLANTIS**	Re-Certification Due Date:	8/9/2019
Room #:	**ISOTOPE VAN**	Hood Manufacturer:	FLOW SCIENCES
Hood #:	**FLOW SCIENCE**	Velocity Sensor Manufacturer:	None
	VENTED WORK STATION	Sash Type:	☑ Vertical ☐ Horizontal ☐ Combo

Testing Services Performed

Velocity Profile: ☑ Pass ☐ Fail ☐ N/A ☐ ANSI/AIHA Z9.5-92 ☐ SEFA 1.2-1996

Sash Height: _____ Sash Width _____

Sash Height authorized by: Rick Galat - Facilities

Sash Operation: ☑ Operational ☐ Non-operational

Hood Lighting: ☑ Operational ☐ Non-operational

Face Velocity Sensor Calibrated: ☐ Yes ☑ No

Certification Criteria:
- Acceptable face velocities on standard hood 90-110 FPM
- Acceptable face velocities on "Air Sentry" hood 70 FPM (+/- 10%).
- Sash height may be modified within reason to achieve face velocities.
- Target sash height is 20".

Service Remarks:
Fan on high speed
No face velocity monitor
All cowlings need to be opened 100%

Face Velocity Profile

19"			8"
96	90	95	122

	19"	8"
Velocity Totals:	281	122
No. of Readings:	3	1
Average Face Velocity:	94	122

Instrumentation

Test Instrument:	Shortridge	Calibration Date:	5/1/18
Model No.:	ADM 860	Calibration Due Date:	5/1/19
Serial No.:	M01411		

Note: The velgrid accessory samples air velocity over a one square foot area.
Therefore only **3/1** readings are required to obtain an accurate average face velocity.

Technician: *Chris Corrigan*