

1300 SERIES A2

Smart design
for you and your
environment



NEW! Thermo Scientific 1300 Series
Class II, Type A2 Biological Safety Cabinet

1300

SERIES A2



Laboratories today are facing new challenges. Safety and reliability continue to be paramount. Yet, there is growing need for improved energy efficiency, simpler operation and less maintenance.

Introducing the 1300 Series A2: a new line of Thermo Scientific Class II, Type A2 biological safety cabinets for best-in-class safety, ergonomics and energy efficiency.

 *proven global leadership in safety*

The Thermo Scientific 1300 Series is backed by our global reputation and commitment to provide the safest and most reliable biological safety cabinets available.

We have decades of market leadership in biological safety cabinets, as well as a full suite of laboratory solutions – all with unmatched quality and world-renowned service and support.

The Thermo Scientific 1300 Series A2 fully complies with NSF/ANSI 49 to ensure a safe operating environment for Class II, Type A2 conditions.



Best-in-Class Value

▶ *optimizing efficiency and operation*

*With the Thermo Scientific
1300 Series A2, you'll enjoy
best-in-class performance:*

- **Superior Protection**
unique airflow design maximizes safety
- **Ergonomic Design**
simple, comfortable environment
- **Operational Cost Savings**
exceptional energy efficiency



Smart design has its rewards –

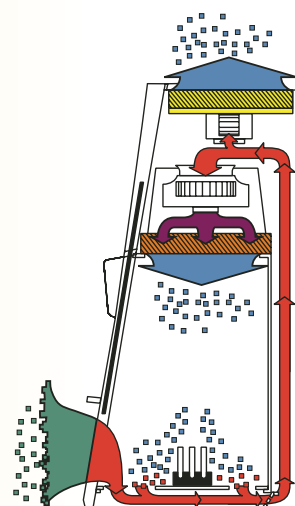
intelligent technology, exceptional value

The Thermo Scientific 1300 Series A2 features advancements in motor technology for dramatically improved energy efficiency and operation. During low usage, an intelligent speed control automatically reduces blower speed to 30% when the cabinet window is closed. This unique technology extends HEPA filter usage life, ensures a sterile working environment and minimizes energy and operating costs.

Unique Airflow Technology

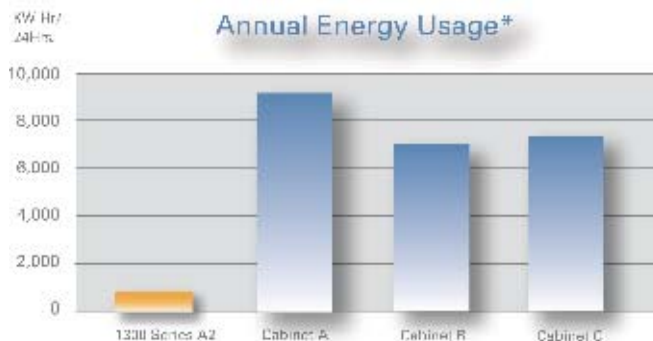
The 1300 Series employs a unique airflow system that raises safety and containment to a new level. The dual supply and exhaust blowers automate balancing of downflow and inflow airflow velocities. Fan speed is monitored and controlled in real-time to maintain user protection at the access opening, even as the filters load or the line voltage fluctuates.

- Clean Air
- Ambient Air
- Exhaust HEPA Filter
- Supply HEPA Filter
- Contaminated Air (positive pressure)
- Contaminated Air (negative pressure)

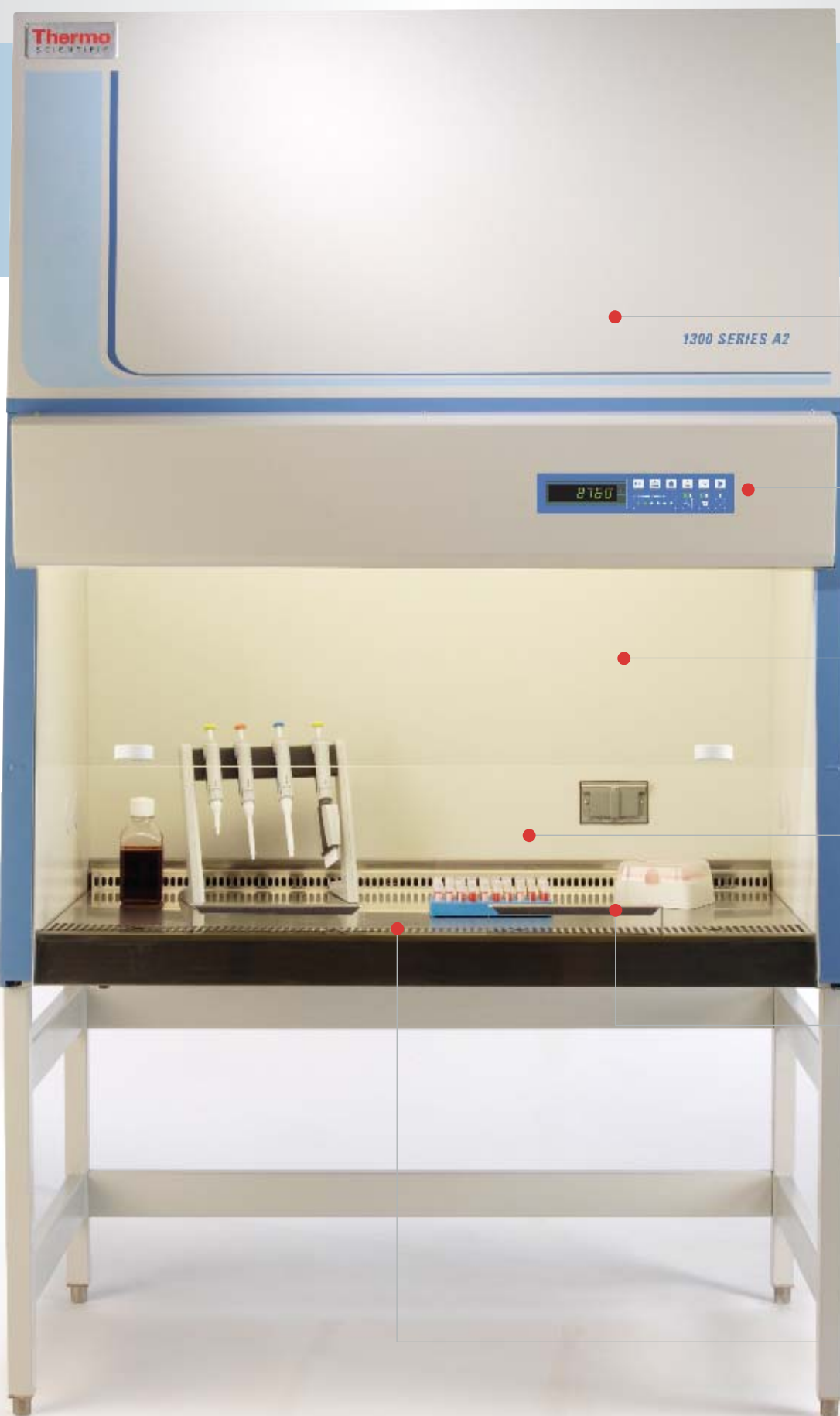


Significant Cost Savings

Reducing overall energy usage is critical for a cost-efficient laboratory. The 1300 Series A2 offers significantly lower energy consumption and heat emissions than traditional cabinets, which reduces energy usage and lab air conditioning costs.



**Assumes 2000 operating hours per year, based on internal performance data; remaining hours in maintenance or reduced flow mode*



Ease-of-Use for Enhanced Safety

An efficient working environment can eliminate expensive disruptions to lab procedures and ensure accurate results. The Thermo Scientific 1300 Series A2 delivers easy-to-use features that enable you to perform your best work – productively and safely.

Pressure Sensor Monitoring

Patented monitoring system detects pressure changes inside the plenum to ensure safe airflow across the entire work surface.

Easy-to-Read Controls

Clearly visible from a seated position, an easy-to-reach control panel offers a large display of operating parameters and functions.

Ergonomically Angled Cabinet Front

Cabinet front is sloped 10° for enhanced comfort and reduced operator fatigue.

Spacious Work Area

A large, unobstructed work surface enables productivity and safety.

Comfortable Armrest

Standard armrests sit just above the intake grill to ensure an ergonomically correct working posture and safe airflows.

Single-Piece Work Tray

The single-piece, stainless steel work tray supports ease of cleaning and minimizes loss of pipette tips and debris into the drain pan.



Effective Cleaning

To reduce risk of sample cross-contamination, a patented window design easily lowers to thoroughly clean window sash interior. This unique design assures that the operator can clean the entire front window safely and easily.

Easy Servicing

All cabinet components, including HEPA filters, are easily accessible from the front to allow for rapid service and minimal work disruption during preventative maintenance and recertification. The unique window design also allows for simplified filter scanning during certification.

Exceptional Safety

Smooth components are used throughout the cabinet, virtually eliminating risk of injury during routine cleaning, servicing and maintenance procedures.

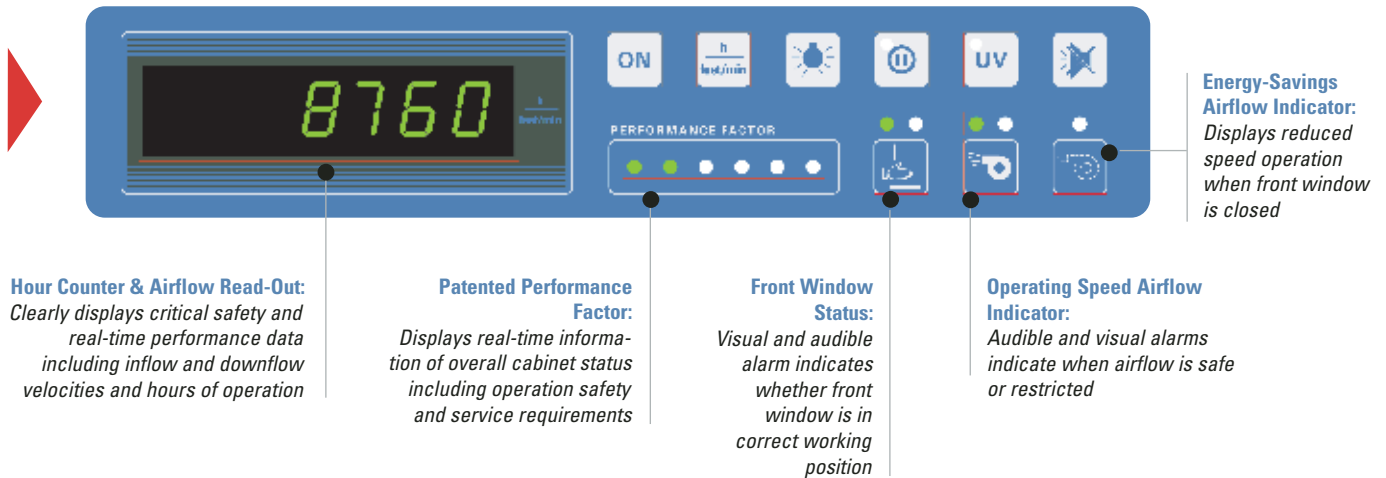
Reduced Maintenance

The optional UV light is programmable from 30 minutes to 24 hours in 30-minute increments, minimizing bulb replacement.



Easy-to-Access Control Panel & Performance Data

The large control panel displays valuable safety and performance data, and is always within easy view and reach from a seated position. The intuitive interface delivers a constant read-out of downflow and inflow velocities and filter usage status.



Options and Accessories

Ordering is easier than ever—

To ensure optimum safety, we now offer a fully configured package including the cabinet, 30" fixed-height stand, factory-installed UV light, and armrest.



Ergonomic Stands, Chair and Footrest

Ensures better posture for the safest working environment



Programmable UV Light

Optimizes decontamination and minimizes bulb usage with programmable timer; Factory and field installed options available



Comfortable Armrest

Protects airflow and enhances user reach inside the cabinet

ADDITIONAL ACCESSORIES:

Thimble Duct and Direct Duct Exhaust Canopies allow air to exhaust outside the building rather than into the laboratory environment

Universal Piping through the top, bottom and sides of the cabinet for easier service connection into facility utilities

Floor Anchoring Brackets for use as supplement to seismic restraint applications

IV Bar with 12 hooks simplifies access to IV bags inside the cabinet

SEE WEB FOR ORDERING INFORMATION
www.thermo.com/1300



Thermo Scientific 1300 Series Class II, Type A2 Biological Safety Cabinets

Specifications and Ordering Information					
Model		1355	1356	1357	1358
Package Ordering No.*		1385	1386	1387	1388
Dimensions	Exterior Dimensions H x W x D inches (mm)	59.8 x 51.2 x 31.3 (1520 x 1300 x 795)		59.8 x 74.8 x 31.3 (1520 x 1900 x 795)	
	Interior Dimensions H x W x D inches (mm)	30.7 x 47.2 x 19.5 (780 x 1200 x 495)		30.7 x 70.9 x 19.5 (780 x 1800 x 495)	
	Height of Work Surface with Adjustable Stand inches (mm)	30 to 38 (750 to 960)		30 to 38 (750 to 960)	
	Height of Work Surface with Fixed Stand inches (mm)	30 (750)		30 (750)	
	Work Surface Area sq in (sq m)	930 (0.56)		1395 (0.84)	
	Working Height of Front Window inches (mm)	10 (254)		10 (254)	
	Maximum Opening Height of Front Window inches (mm)	21 (535)		21 (535)	
	Shipping Dimensions H x W x D inches (mm)	66.9 x 55.5 x 36.4 (1700 x 1410 x 925)		66.9 x 79.1 x 36.4 (1700 x 2010 x 925)	
Weight	Net Weight lbs (kg)	~530 (~240)		~750 (~340)	
	Shipping Weight lbs (kgs)	~575 (~260)		~795 (~360)	
	Maximum Load of One-Piece Work Tray lbs (kg)	110 (50)		110 (50)	
Ventilation System	Exhaust/Inflow Air Volume m3/h (CFM)	530 (330)		840 (490)	
Heat Emmission	Heat Emission at 25°C ambient kW	~0.15		~0.26	
Filter Specification	Supply/Exhaust Air Filter	HEPA H 14 EN 1822, 99.995% at 0.3 µm particle size			
Performance	Certification	NSF/ANSI 49			
	Sound Pressure Level dB (A)	63		65	
	Lighting Power fc	>65		>65	
Electrical Data	Power Consumption, operating set point kW	0.2		0.4	
	Current Consumption Amps	1.7		3.3	
	Protective Class	I / IP 20		3.4	
	Protective Measure	I / IP 20			
		Conductor connection			
	Individual Precautions on Customer Side	Lead fuse (slow blow) T 15 A or circuit breaker B 15. The local electrical regulations in the country of use as well as the relevant connection conditions must be observed.			
Supply Management	Supply Requirements	115V/50/60Hz	230V/50/60Hz	115V/50/60Hz	230V/50/60Hz
	Receptacles	The receptacles have a load capacity of up to 5 A and are protected with T 5 A fuses. When all receptacles are in use simultaneously they must not exceed the maximum total load capacity of 5 A.			
	Radio Interference	Circuit is interference free in accordance with IEC 61326			
Features	Access Ports	4 (2 on each side)		4 (2 on each side)	
	Service Valves	Up to 4 (installed through access ports)		Up to 4 (installed through access ports)	
	Receptacles	One duplex, right side	Single, right side	Two duplex, left and right side	Two single, left and right side
	Warranty	3 Years parts and labor		3 Years parts and labor	

* Package includes cabinet, 30 inch fixed-height stand, UV light, and armrest.

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