ThermoFisher SCIENTIFIC

Biosafety cabinets

Efficiency, safety and value for routine applications

1300 Series A2
Biological Safety Cabinet

thermo scientific

Sample and user protection

Containment, comfort and convenience

The Thermo Scientific™ 1300 Series Class II, Type A2 biological safety cabinets combine safety, energy efficiency and value for today's laboratory. The cabinet is energy efficient and provides both, personal and product protection from biological hazards and contamination. It can be connected to an external exhaust to allow work with volatile toxic chemicals that are sometimes used in the cabinet.

Containment

- Thermo Scientific™ SmartFlow™ technology automates airflow compensation
- Digital Airflow Verification (DAVe) alerts user to out-of-tolerance airflows that could compromise product and operator protection
- H14 HEPA filters remove airborne contaminants
- SmartFlow indicator displays performance status

Comfort

- Low noise level enhances user focus
- 10° sloped front for exceptional comfort and ergonomics
- Spacious work area with comfortable armrests
- Increased light intensity for a brighter work environment

Convenience

- Thermo Scientific™ SmartClean front window design to improve access to the work area for cleaning
- Thermo Scientific™ SmartPort™ convenience provides contained passage of tubing and cables into the work area
- Programmable UV light extends bulb life and saves energy

Efficiency

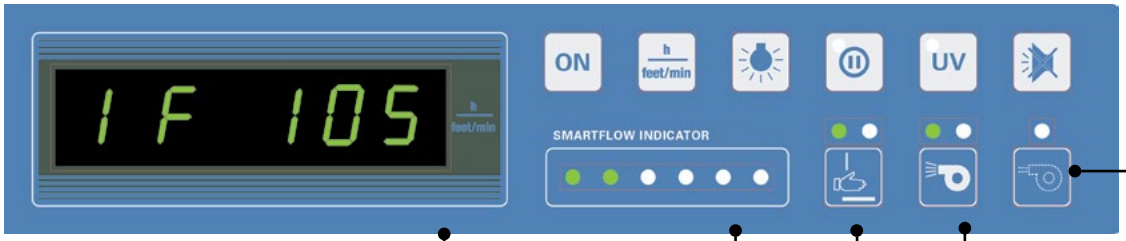
- DC motors offer low energy consumption
- Night Set-Back Mode reduces airflow to 30% during low-usage periods
- Long filter life*
- Programmable UV light extends bulb life*

*Compared to previous models.

Basic controls and convenient features

Help simplify your daily work

Intuitive Control Panel: Displays valuable safety and performance data with constant read-out of downflow/inflow velocities



Night Set-Back Indicator: Displays reduced speed operation when front window is closed

DAVe Airflow Indicator: Audible and visual alarms indicate when airflow is out of tolerance

Airflow Read-Out & Hour Counter: Clearly displays realtime performance data, including inflow and downflow velocities and hours of operation

SmartFlow Indicator: Visually demonstrates power and capacity to maintain protection

Front Window Status: Visual and audible alarm indicates whether front window is in correct working position

SmartPort convenience

Clean and safe routing for vacuum tubing and cables through the side of the biological safety cabinet (BSC) for improved organization and work efficiency.

SmartClean window design

Our unique window design easily lowers for thorough cleaning of inner surfaces and designed to protect users by maintaining inflow, even when the window is lowered.

Specifications

Size / Width			3-foot	4-foot	5-foot	6-foot
Dimensions	Exterior dimensions W x H x D	in	39.4 x 61.8 x 31.5	51.2 x 61.8 x 31.5	63 x 61.8 x 31.5	74.8 x 61.8 x 31.5
	Interior dimensions W x H x D	in	35.4 x 30.7 x 24.8	47.2 x 30.7 x 24.8	59.1 x 30.7 x 24.8	70.9 x 30.7 x 24.8
	Shipping dimensions1 W x H x D	in	43.7 x 68.1 x 36.4	55.5 x 68.1 x 36.4	67.3 x 68.1 x 36.4	79.1 x 68.1 x 36.4
	Working height of front window	in	Choice of 8 or 10			
	Maximum opening height of front window	in	21			
Weight	Net weight	lbs	375	441	507	617
	Shipping weight1	lbs	419	496	573	694
Electrical Data	Voltage	V	120			
	Frequency	Hz	60			
Filter Specification			H14 HEPA EN 1822, 99.995% @ MPPS			
Certification			NSF/ANSI 49, UL, CE			
Ergonomics	Lighting power	fc	>100	>120	>120	>120
	SmartPort		Two 3” plugged cable ports, one on each side wall			
	Receptacles		2 GFI duplex			
	Service valves		Up to 6 total (3 on each side wall)			
8-Inch Front Opening	Sound pressure level	dB (A)	<62	<62	<64	<64
	Energy consumption, operating set point2	W	150	180	280	360
	Energy consumption, Night Set-Back mode	W	70	70	120	120
	Heat output, operating mode (non-vented)	BTU/hr	512	614	955	1228
	Heat output, Night Set-Back mode (lights off, non-vented)	BTU/hr	239	239	410	410
	Exhaust/inflow air volume	cfm	207	276	344	413
	Exhaust volume, thimble ducted	cfm	269	358	448	537
10-Inch Front Opening	Sound pressure level	dB (A)	<63	<63	<65	<65
	Energy consumption, operating set point2	W	170	200	310	400
	Energy consumption, Night Set-Back mode	W	70	70	120	120
	Heat output, operating mode (non-vented)	BTU/hr	580	683	1058	1366
	Heat output, Night Set-Back mode (lights off, non-vented)	BTU/hr	239	239	410	410
	Exhaust/inflow air volume	cfm	258	344	431	517
	Exhaust volume, thimble ducted	cfm	336	448	560	672

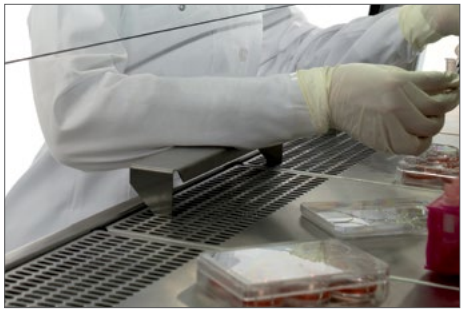
1 Export packaging dimensions and weight upon request

2 Clean filters, fans operating at nominal set point, interior lighting activated

Ordering information

Bundle Packages	Size	Cat. No. 8-inch front opening	Cat. No. 10-inch front opening
1300 Series Class II, Type A2 biological safety cabinet with UV light, armrests, manual adjustable stand, and **SmartCoat Interior**	3-foot	1340	1321
	4-foot	1395	1385
	5-foot	1351	1369
	6-foot	1397	1387
1300 Series Class II, Type A2 biological safety cabinet with UV light, armrests, manual adjustable stand, and **One-Piece Stainless Steel Interior**	3-foot	1342	1323
	4-foot	1335	1375
	5-foot	1353	1371
	6-foot	1337	1377

Manual adjustable stand



Stainless steel armrests

UV light

To build your own 1300 Series A2 BSC, start with these cabinet-only part numbers:

Individual cabinets	Size	Cat. No. 8-inch front opening	Cat. No. 10-inch front opening
1300 Series Class II, Type A2 biological safety cabinet with **SmartCoat Interior**	3-foot	1339	1320
	4-foot	1325	1355
	5-foot	1350	1368
	6-foot	1327	1357
1300 Series Class II, Type A2 biological safety cabinet with **One-Piece Stainless Steel Interior**	3-foot	1341	1322
	4-foot	1305	1345
	5-foot	1352	1370
	6-foot	1307	1347

1910179 hanging shelf for base stand

ERG-CR-2330 Ergolign saddle stool

191127 optional adjustable footrest

Field-installed accessories

Accessory	Description	Cat. No.
Stands	Manual adjustable stand for 3 foot cabinet, provides work surface height of 30 to 38 inches adjustable in 2 inch increments	1911400
	Manual adjustable stand for 4 foot cabinet, provides work surface height of 30 to 38 inches adjustable in 2 inch increments	1911302
	Manual adjustable stand for 5 foot cabinet, provides work surface height of 30 to 38 inches adjustable in 2 inch increments	1911401
	Manual adjustable stand for 6 foot cabinet, provides work surface height of 30 to 38 inches adjustable in 2 inch increments	1911303
	Electrically adjustable floor stand for 0.9m BSC. Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50117449
	Electrically adjustable floor stand for 1.2m BSC. Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50109314
	Electrically adjustable floor stand for 1.5m BSC. Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50117450
	Electrically adjustable floor stand for 1.8m BSC. Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50109325
	Rolling castor stand for 3 foot cabinet, provides fixed height of 32.5 inches	1911409
	Rolling castor stand for 4 foot cabinet, provides fixed height of 32.5 inches	1911322
	Rolling castor stand for 5 foot cabinet, provides fixed height of 32.5 inches	1911410
	Rolling castor stand for 6 foot cabinet, provides fixed height of 32.5 inches	1911346
Exhaust Transitions	Thimble duct exhaust transition for 3, 4 and 5 foot cabinet	1911316
	Thimble duct exhaust transition for 6 foot cabinet	1911317
	Alnor exhaust alarm for 1300 Series A2 biological safety cabinets, qualified install only	1910185
User Convenience Equipment	Interior tubing retainer clips (6 per kit)	1910083
	Hanging shelf for base stand	1910179
	Stainless steel armrest (set of two)	1911313
	Adjustable footrest	191127
	Replacement SmartPort grommets (4 per kit)	1910112
	Thermo Scientific Ergolign Saddle Stool, 23 inch to 30.5 inch adjustable seat height	ERG-CR-2330
	IV bag holder kit with 6 hooks (for 3 foot cabinet only)	1911413
	IV bag holder kit with 12 hooks (for 4 foot, 5 foot, and 6 foot cabinet)	1911312
Alternate drain valve	Stainless steel ball valve (replaces standard non-corrosive PVC drain valve)	249098
Sidewall Utilities	Combustible gas valve	1911308
	Non-combustible gas valve	1911309
	Vacuum valve	1911310
	Water valve	1911311

Factory-installed accessories

Accessory	Left or right connection	Top or bottom connection	Cat. No.
Universal Piping for 3 Foot Models	Right	Both	1910286
		Top	1911415
	Left	Both	1910287
		Top	1911416
Universal Piping for 4 Foot Models	Right	Both	1911321
		Top	1911417
	Left	Both	1911369
		Top	1911418
Universal Piping for 5 Foot Models	Right	Both	1910288
		Top	1911419
	Left	Both	1910289
		Top	1911420
Universal Piping for 6 Foot Models	Right	Both	1911367
		Top	1911421
	Left	Both	1911370
		Top	1911422
Universal Piping for All Models	Right	Bottom	1911423
	Left	Bottom	1911424
Universal Piping Utilities	Combustible gas valve for use with universal piping option		1911304
	Non-combustible gas valve for use with universal piping option		1911305
	Vacuum valve for use with universal piping option		1911306
	Water valve for use with universal piping option		1911307
UV Light Option	UV light option for 3 foot or 4 foot cabinet		1911319
	UV light option for 5 foot or 6 foot cabinet		1911368

Learn more at **thermofisher.com/bsc**

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