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
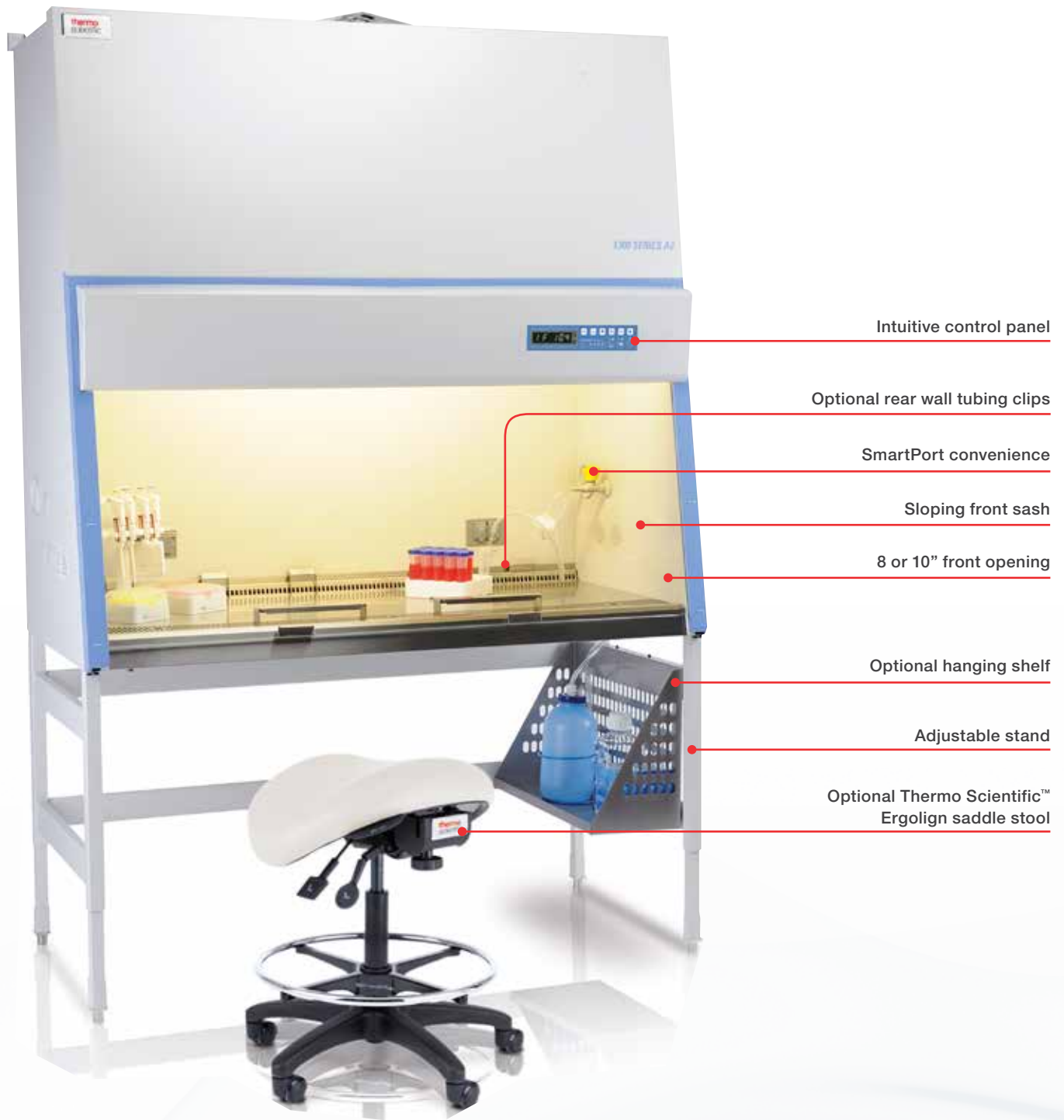
Intuitive control panel

Optional rear wall tubing clips

SmartPort convenience

Sloping front sash

8 or 10" front opening

Optional hanging shelf

Adjustable stand

Optional Thermo Scientific™
Ergolign saddle stool

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			0.9 m (3 ft.)	1.2 m (4 ft.)	1.5 m (5 ft.)	1.8 m (6 ft.)
Dimensions	Exterior dimensions W x H x D	mm in.	1000 x 1568 x 798 39.4 x 61.8 x 31.5	1300 x 1568 x 798 51.2 x 61.8 x 31.5	1600 x 1568 x 798 63 x 61.8 x 31.5	1900 x 1568 x 798 74.8 x 61.8 x 31.5
	Interior dimensions W x H x D	mm in.	900 x 780 x 630 35.4 x 30.7 x 24.8	1200 x 780 x 630 47.2 x 30.7 x 24.8	1500 x 780 x 630 59.1 x 30.7 x 24.8	1800 x 780 x 630 70.9 x 30.7 x 24.8
	Shipping dimensions1 W x H x D	mm in.	1110 x 1730 x 925 43.7 x 68.1 x 36.4	1410 x 1730 x 925 55.5 x 68.1 x 36.4	1710 x 1730 x 925 67.3 x 68.1 x 36.4	2010 x 1730 x 925 79.1 x 68.1 x 36.4
	Working height of front window	mm/in.	Choice of 200 / 8 or 250 / 10			
	Maximum opening height of front window	mm/in.	525 / 21			
Weight	Net weight	kg/lbs	170 / 375	200 / 441	230 / 507	280 / 617
	Shipping weight1	kg/lbs	190 / 419	225 / 496	265 / 573	315 / 694
Electrical Data	Voltage	V	230			
	Frequency	Hz	50 / 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		Two standard single receptacles located on rear wall, right and left			
	Service valves		Up to 6 total (3 on each side wall)			
200 mm (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 (W)	512 (150)	614 (180)	955 (280)	1228 (360)
	Heat output, Night Set-Back mode (lights off, non-vented)	BTU/hr (W)	239 (70)	239 (70)	410 (120)	410 (120)
	Exhaust/inflow air volume	cfm (m3/h)	207 (351)	276 (468)	344 (585)	413 (702)
	Exhaust volume, thimble ducted	cfm (m3/h)	269 (457)	358 (609)	448 (761)	537 (913)
250 mm (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 (W)	580 (170)	683 (200)	1058 (310)	1366 (400)
	Heat output, Night Set-Back mode (lights off, non-vented)	BTU/hr (W)	239 (70)	239 (70)	410 (120)	410 (120)
	Exhaust/inflow air volume	cfm (m3/h)	258 (439)	344 (585)	431 (732)	517 (878)
	Exhaust volume, thimble ducted	cfm (m3/h)	336 (571)	448 (761)	560 (951)	672 (1141)

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. 200 mm (8-inch) front opening	Cat. No. 250 mm (10-inch) front opening
1300 Series Class II, Type A2 biological safety cabinet with UV light, armrests, manual adjustable stand, and **SmartCoat Interior**	0.9 m (3 ft.)	1391	1331
	1.2 m (4 ft.)	1396	1386
	1.5 m (5 ft.)	1373	1381
	1.8 m (6 ft.)	1398	1388
1300 Series Class II, Type A2 biological safety cabinet with UV light, armrests, manual adjustable stand, and **One-Piece Stainless Steel Interior**	0.9 m (3 ft.)	1393	1333
	1.2 m (4 ft.)	1336	1376
	1.5 m (5 ft.)	1367	1383
	1.8 m (6 ft.)	1338	1378

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. 200 mm (8-inch) front opening	Cat. No. 250 mm (10-inch) front opening
1300 Series Class II, Type A2 biological safety cabinet with **SmartCoat Interior**	0.9 m (3 ft.)	1390	1330
	1.2 m (4 ft.)	1326	1356
	1.5 m (5 ft.)	1372	1380
	1.8 m (6 ft.)	1328	1358
1300 Series Class II, Type A2 biological safety cabinet with **One-Piece Stainless Steel Interior**	0.9 m (3 ft.)	1392	1332
	1.2 m (4 ft.)	1306	1346
	1.5 m (5 ft.)	1366	1382
	1.8 m (6 ft.)	1308	1348

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 0.9 m (3 ft.) cabinet, provides work surface height of 760 to 965 mm (30 to 38 in.) adjustable in 55 mm (2 in.) increments	1911400
	Manual adjustable stand for 1.2 m (4 ft.) cabinet, provides work surface height of 760 to 965 mm (30 to 38 in.) adjustable in 55 mm (2 in.) increments	1911302
	Manual adjustable stand for 1.5 m (5 ft.) cabinet, provides work surface height of 760 to 965 mm (30 to 38 in.) adjustable in 55 mm (2 in.) increments	1911401
	Manual adjustable stand for 1.8 m (6 ft.) cabinet, provides work surface height of 760 to 965 mm (30 to 38 in.) adjustable in 55 mm (2 in.) increments	1911303
	Electric adjustable stand for 0.9 m (3 ft.) cabinet Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50117449
	Electric adjustable stand for 1.2 m (4 ft.) cabinet Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50109314
	Electric adjustable stand for 1.5 m (5 ft.) cabinet Height adjustable from 750 mm to 950 mm plus three memory-settings (120/230V)	50117450
	Electric adjustable stand for 1.8 m (6 ft.) cabinet 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 825 mm (32.5 in.)	1911409
	Rolling castor stand for 4 foot cabinet, provides fixed height of 825 mm (32.5 in.)	1911322
	Rolling castor stand for 5 foot cabinet, provides fixed height of 825 mm (32.5 in.)	1911410
	Rolling castor stand for 6 foot cabinet, provides fixed height of 825 mm (32.5 in.)	1911346
Exhaust Transitions	Thimble duct exhaust transition for 0.9 m (3 ft.), 1.2 m (4 ft.), 1.5 m (5 ft.) cabinets	1911316
	Thimble duct exhaust transition for 1.8 m (6 ft.) 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 0.9m [3 ft.] cabinet only)	1911413
	IV bag holder kit with 12 hooks (for 1.2m [4 ft.], 1.5m [5 ft.], 1.8m [6 ft.] cabinets)	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 0.9 m (3 ft.) Models	Right	Both	1910286
		Top	1911415
	Left	Both	1910287
		Top	1911416
Universal Piping for 1.2m (4 ft.) Models	Right	Both	1911321
		Top	1911417
	Left	Both	1911369
		Top	1911418
Universal Piping for 1.5 m (5 ft.) Models	Right	Both	1910288
		Top	1911419
	Left	Both	1910289
		Top	1911420
Universal Piping for 1.8 m (6 ft.) 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
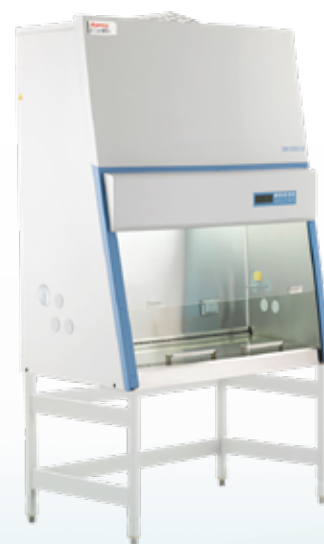
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