

# Thermo Scientific Forma 1800 Series Clean Benches

Our horizontal laminar airflow benchtop workstations, or clean benches, create clean air for operations requiring a particle-free environment. These units meet requirements of Federal Standard 209E for Class 100 (M 3.5) clean air.



## Designed for Product Protection

- All interior surfaces of the work area align with the edge of the HEPA filter media to provide true laminar airflow, preventing “picture framing” and backwashing of contaminated air and ensuring your product’s safety.
- Work surface and sidewalls are constructed of 16 gauge Type 304 stainless steel for durability and easy cleaning.
- Blower/motor switch, light switch, and receptacle are located conveniently on the control panel.
- Built-in spill guard at the back of the work area protects the HEPA filter from spilled liquids, preventing filter damage and premature replacement.

Thermo Scientific Forma 1800 Series Clean Benches are designed to maintain a sterile environment for your samples in clinical or medical research applications

# Specifications and Ordering Information

## SPECIFICATIONS

Models	
3 Ft. Benchtop	1839
4 Ft. Benchtop	1849
6 Ft. Benchtop	1828
Work Area	
Width - 1839	34.5" (876mm)
Width - 1849	46.5" (1181mm)
Width - 1828	70.5" (1791mm)
Height	28.4" (721mm)
Depth	19.1" (485mm)
Exterior Dimensions	
Width - 1839	37.0" (940mm)
Width - 1849	49.2" (1250mm)
Width - 1828	73.2" (1859mm)
Height - 1839*	49.1" (1247mm)
Height - 1849*	53.1" (1349mm)
Height - 1828*	54.1" (1374mm)
Depth	34.0" (864mm)
Electrical, Plug, Breaker & Motor	
1839	120V, 60 Hz, 7.0 FLA
1849	120V, 60 Hz, 9.0 FLA
1828	120V, 60 Hz, 12.0 FLA
Plug	NEMA 5-15P Hospital Grade Plug
Breaker Requirement	15 Amp
Motor 1839/1849	1/3 HP
Motor 1828	1/2 HP
Penetrations	
All Models	4, 2 on each sidewall
Unit Heat Load	
1839	2750 BTUH (810 Watts)
1849	3680 BTUH (1,080 Watts)
1828	4910 BTUH (1,440 Watts)
Weight	
Net	
1839	190 lbs. (86 kg)
1849	325 lbs. (147 kg)
1828	430 lbs. (195 kg)
Shipping	
1839	290 lbs. (132 kg)
1849	385 lbs. (175 kg)
1828	575 lbs. (261 kg)

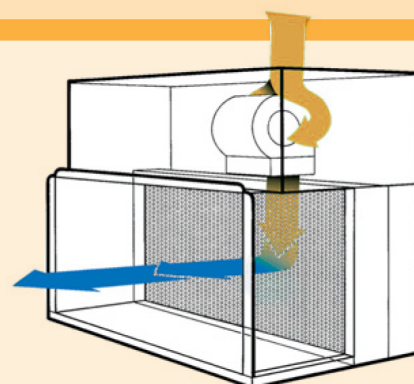
\*Height shown without stand. For height dimensions with stand included, see table at bottom.

All standard models are UL Listed to US and Canadian requirements. Custom products are not UL Listed.

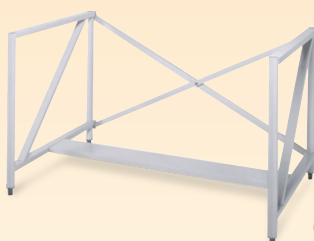
## Carefully Directed Airflow

Intake air passes through a 1.0" (25mm) fiberglass prefilter. The blower/motor unit moves the air through a zero-probed HEPA filter rated at 99.99% efficient for 0.3 micron particulates.

The HEPA-filtered air is then directed horizontally across the work surface. Positive pressure, unidirectional laminar airflow prevents any inflow of room air contaminants onto the work surface.



■ Ambient Air ■ HEPA-Filtered Air



Optional Modular Stand

## ACCESSORIES AND OPTIONS

Part no.	Description	Installation	Model 1839	Model 1849	Model 1828
191055	Magnehelic gauge	factory installed	x	x	x
191057	IV Rod	customer installed	x	x	x
191075	UV light	customer installed	x		
191076	UV light	customer installed		x	x
191109	GFI Duplex receptacle	factory installed	x	x	x
191110	Standard duplex outlet	factory installed	x	x	x
191253	Side mounted service valve	customer installed	x	x	x
191400	1839 30" fixed height stand	customer installed	x		
191401	1839 36" fixed height stand	customer installed	x		
191402	1849 30" fixed height stand	customer installed		x	
191403	1849 36" fixed height stand	customer installed		x	
191398	1828 30" fixed height stand	customer installed			x
191399	1828 36" fixed height stand	customer installed			x

Model	TOTAL CABINET HEIGHT WITH 30.0" STAND		TOTAL CABINET HEIGHT WITH 36.0" STAND	
	Minimum Ht.*	Maximum Ht.**	Minimum Ht.*	Maximum Ht.**
1839 - 3 foot model	77.6" (1971mm)	78.9" (2004mm)	83.6" (2123mm)	84.9" (2156mm)
1849 - 4 foot model	81.6" (2073mm)	82.9" (2106mm)	87.6" (2225mm)	88.9" (2258mm)
1828 - 6 foot model	82.6" (2098mm)	83.9" (2131mm)	88.6" (2250mm)	89.9" (2283mm)

\*Minimum height = levelers in; minimum height to the work surface is 29.4" (747mm) for the 30.0" stand and 35.4" (899mm) for the 36.0" stand

\*\*Maximum height = levelers out; maximum height to the work surface is 30.7" (780mm) for the 30.0" stand and 36.7" (932mm) for the 36.0" stand

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