high performance with
optimized efficiency, safety and functionality

Thermo Scientific Heraguard ECO Clean Benches

NEW Heraguard™ ECO clean benches are ideal for laboratory applications where sample protection is required. Due to DC motors, Heraguard ECO clean benches use less energy to operate so there is less heat emitted into the lab.*

Heraguard ECO clean benches provide:

• Sample protection
• Clean air conditions that can be validated
• Ease of use

Variety of sizes

Clean benches are available with interior widths of 900, 1200, 1500 and 1800 mm, and are offered in two different working heights:
• Standard work space height 650 mm
• Extra work space height 950 mm

All-round vision

The side windows increase the available light inside the work area and support a comfortable work environment.

UV disinfection (optional)

A UV disinfection light can be fitted into the top of the work space to disinfect the worktop.

Prefilter

The prefilter on the intake side can be changed by hand, without the need for tools. Prefilter exchange is made economical and easy.
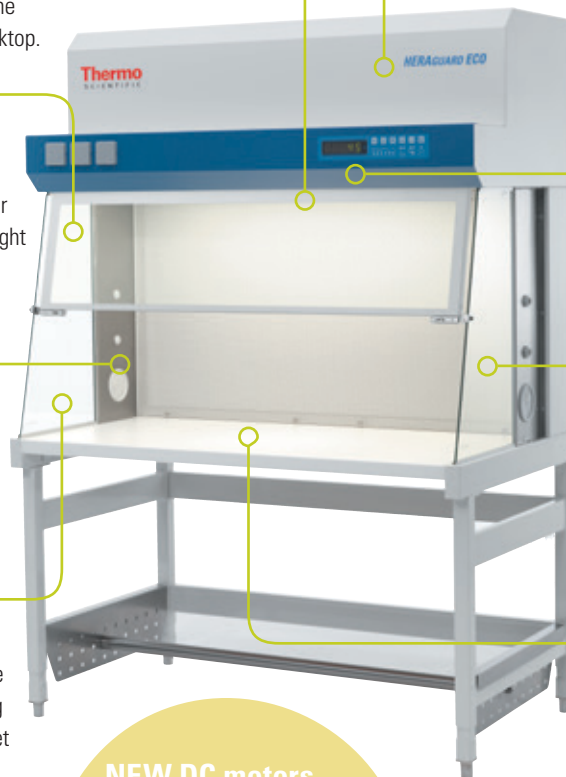
Transparent hinged wind screen (optional)

Protects the user against the dry purified air flow. The wind screen is folded under the light housing and can be flipped down for use.

Intuitive control panel

Displays safety and performance data.

SmartPort™ convenience

Clean and safe routing for vacuum tubing and cables through the side of the clean bench improves organization and work efficiency.

Easy HEPA filter exchange

The HEPA filter is easily removed from the front – a simple process that does not involve any disassembly or removal of equipment from the wall. This saves time during service visits.

Modular side windows

The side windows are made of single pane safety glass with an access port for tubing or a media tap. Optionally, a lacquered sheet steel plate with three holes can be used.

Choice of work tops

Standard melamine work tops or optional stainless steel tops are available for different applications and individual work space designs.

NEW DC motors
Now available with DC motors which offer over 60% lower energy consumption compared to previous model (based on 1.2m model)

* Based on data from internal testing and The University of Michigan Field Study, published in American Biotechnology Laboratory.

Thermo Scientific
Heraguard ECO Clean Benches

Model		ECO 0.9	ECO 1.2	ECO 1.5	ECO 1.8	ECO 1.8/95
Ordering Information		51029701	51029702	51029703	51029704	51029705
Dimensions						
Exterior dimensions W x H x D	mm	1000 x 1170 x 810	1300 x 1170 x 810	1600 x 1170 x 810	1900 x 1170 x 810	1900 x 1475 x 1010
Interior dimensions W x H x D	mm	920 x 645 x 585	1220 x 645 x 585	1520 x 645 x 585	1820 x 645 x 585	1820 x 950 x 785
Usable work area[1] W x H x D	mm	920 x 645 x 585	1220 x 645 x 585	1520 x 645 x 585	1820 x 645 x 585	1820 x 950 x 785
Shipping dimensions[2] W x H x D	mm	1130 x 1320 x 980	1430 x 1320 x 980	1730 x 1320 x 980	2030 x 1320 x 980	2030 x 1620 x 1180
Weight						
Net weight	kg	110	125	140	160	170
Shipping weight[2]	kg	135	150	180	200	220
Max. load capacity of work surface	kg	30	30	30	30	30
Electrical Data						
Voltage	V	230				
Frequency	Hz	50 / 60				
Protection class		I				
Overvoltage category		II				
IP protection system		IP 20				
Compliance						
Agency		GOST				
CE		2006/95/EC; 2004/108/EC; 2011/65/EC; 2006/121/EC				
Standards		EN 61010-1:2011; EN 61326:2006				
Prefilter		Type (EN779) G 3 dust filter, filtering efficiency: coarse - medium				
Performance Specifications						
Power consumption	W	270	270	550	550	550
Heat output	BTU/hr	920	920	1840	1840	1840
Air velocity	m/s	0.45 +/- 20% (reduced flow = 0.23 +/- 20%, all models)				0.40 +/- 20%
Lighting intensity	lx	> 1000				
Noise pressure level	dB(A)	<55		<60		
Minimum clearance from room ceiling	mm	150				
Side windows		Tempered safety glass				
Tabletop		White melamine; stainless steel optional				
Receptacles[3]		3				
Service valves		Up to 2 may be installed through access ports (1 left, 1 right)				

1 With optional work surface depth

2 Export packaging dimensions and weight upon request

3 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

Heraguard ECO Clean Benches and Accessories	Factory Installed	Field Installed
51029701	Heraguard ECO 0.9 width 1000mm, internal width ~920mm, weight ~90kg 230V/50HZ		
51029702	Heraguard ECO 1.2 width 1300mm, internal width ~1220mm, weight ~120kg 230V/50HZ		
51029703	Heraguard ECO 1.5 width 1600mm, internal width ~1520mm, weight ~140kg 230V/50HZ		
51029704	Heraguard ECO 1.8 width 1900mm, internal width ~1820mm, weight ~150kg 230V/50HZ		
51029705	Heraguard ECO 1.8/95 width 1900mm, internal width 1820mm, weight 220kg 230V/50HZ		

Country Configurations		
51900300	Switzerland	•	
51900303	UK	•	
51900306	Italy	•	
51900448	France	•	
51900449	Australia	•	
51900481	Denmark	•	
51900900	China	•	

Floor Stand (Height of 680 mm)		
50116441	Floor stand 0.9 m. Provides ECO work height of 760 mm		•
50109309	Floor stand 1.2 m. Provides ECO work height of 760 mm		•
50116442	Floor stand 1.5 m. Provides ECO work height of 760 mm		•
50109311	Floor stand 1.8 m. Provides ECO work height of 760 mm		•

Adjustable Floor Stand (Height of 680 - 880mm)		
50116443	Adjustable floor stand 0.9 m. Provides variable ECO work height of 760 mm - 960 mm in 50 mm adjustable increments		•
50109312	Adjustable floor stand 1.2 m. Provides variable ECO work height of 760 mm - 960 mm in 50 mm adjustable increments		•
50116444	Adjustable floor stand 1.5 m. Provides variable ECO work height of 760 mm - 960 mm in 50 mm adjustable increments		•
50109313	Adjustable floor stand 1.8 m. Provides variable ECO work height of 760 mm -960 mm in 50 mm adjustable increments		•

Foot Rest Bar, for Non Electronic Floor Stand		
50051982	KFR 09 foot rest bar for non-electrical stands 0.9 m		•
50051983	KFR 12 foot rest bar for non-electrical stands 1.2 m		•
50051984	KFR 15 foot rest bar for non-electrical stands 1.5 m		•
50051985	KFR 18 foot rest bar for non-electrical stands 1.8 m		•

Castors for Fixed and Manually Adjustable Stands		
50109977	Castors. Provides work height of 860 mm		•

Control panel

Left hand glass with metal sheet
and two service valves

Heraguard ECO Clean Benches and Accessories		Factory Installed	Field Installed
Media Valves			
50044678	Vacuum tap G3/8 connection (grey) with long neck for installation in side walls		•
50044679	Water tap G3/8 connection (black) with long neck for installation in side walls		•
50045959	Non-combustible gas G3/8 gas connection (green) with long neck for installation in side walls		•
50046015	Combustible gas G3/8 connection (yellow) with long neck for installation inside walls		•
50059017	Lead through for hose connection for side wall use. Suitable for 10 – 13 mm inner diameter hose		•
50076408	Lead through for hose connection for side wall use. Suitable for 3 mm inner diameter hose.		•
Solenoid Valve (should only be quoted with combustible gas valves)*			
50074905	Solenoid valve for use with tap for flammable gas cylinders G3/8 connection		•
Stainless Steel Work Surface Wraps			
51901074	Stainless steel work surface for HERAguard ECO 9 width 900mm, depth 580mm	•	
51901075	Stainless steel work surface for HERAguard ECO 1.2 width 1200mm, depth 580mm	•	
51901076	Stainless steel work surface for HERAguard ECO 1.5 width 1500mm, depth 580mm	•	
51901077	Stainless steel work surface for HERAguard ECO 1.8 width 1800mm, depth 580mm	•	
51901078	Stainless steel work surface for HERAguard ECO 1.8/95 width 1800mm, depth 780mm	•	
Side Window Modifications			
51901071	Left hand glass with metal sheet and 3 media valve holes for models: HERAguard ECO 0.9, 1.2, 1.5, 1.8, 1.8/95	•	•
51901072	Right hand glass with metal sheet and 3 media valve holes for models: HERAguard ECO 9, 12, 15, 18 and ECO 18/95	•	•
UV Options			
51901073	UV Option, factory installed, comes with UV-resistant night cover	•	
50140092	Retrofit kit UV-radiator HERAguard ECO 0.9		•
50140093	Retrofit kit UV-radiator HERAguard ECO 1.2		•
50140094	Retrofit kit UV-radiator HERAguard ECO 1.5		•
50140095	Retrofit kit UV-radiator HERAguard ECO 1.8		•
50140096	Retrofit Kit UV-Radiator HERAguard ECO 1.8/95		•
Wind Screen Protection Kits			
50052208	Wind screen protection kit, complete with hinges to fit the control unit for HERAguard ECO 0.9	•	
50052460	Wind screen protection kit, complete with hinges to fit the control unit for HERAguard ECO 1.2	•	
50052461	Wind screen protection kit, complete with hinges to fit the control unit for HERAguard ECO 1.5	•	
50052462	Wind screen protection kit, complete with hinges to fit the control unit for HERAguard ECO 1.8	•	
UV-Resistant Night Covers			
50139417	UV-resistant night cover for HERAguard ECO 0.9		•
50139418	UV-resistant night cover for HERAguard ECO 1.2		•
50139419	UV-resistant night cover for HERAguard ECO 1.5		•
50139420	UV-resistant night cover for HERAguard ECO 1.8		•
50139421	UV-resistant night cover for HERAguard ECO 1.8/95		•
General Accessories			
50073943	Hanging bar 700mm with set of 6 hooks for HERAguard ECO 0.9		•
50073944	Hanging bar 1000mm with set of 10 hooks for HERAguard ECO 1.2 - 1.8/95		•

UV-resistant night cover

Wind screen protection kit

* Check with local authorities whether or not this feature is required for your institution. This option ensures that gas is disconnected in the event of a power failure.