



Captair Smart

Ductless filtering fume hoods

Life in the lab becomes Simpler *Safer*



Captair Smart

Ductless Filtering Fume Hoods

Erlab's innovative technology keeps you safe

Erlab's unique Flex Filtration can manage most lab applications

SMART TECHNOLOGY

Simple, intuitive communication by light shows the status of the hood

Sensors to detect filter saturation

Low power consumption. Operates with a standard plug using only 60W

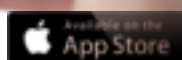
Face velocity is automatically monitored

The 6° slanted sash offers optimal visibility and an ergonomic work space

Large openings for easy access to your work



Download the eGuard App for remote control and monitoring



Life in the laboratory becomes simpler and safer

Simpler to use *Safer* to operate

Erlab's 47 years of expertise in research, design and manufacturing of filtering fume hoods guarantee superior filtration that will keep you protected during your chemical processes.

Smart Technology: The new Captair Smart ductless filtering fume hoods are designed with a simple and innovative way of communication. Smart Technology uses simple light to show that the hood is operating safely so you can focus your attention on what is most important: your work.



Erlab's expertise
in filtration



Guided by
the light



Remote access to hood
status, settings and alerts

Simpler to use

- Smart Technology enables visual light communication to indicate the status of the hood. When the light is still the hood is operating safely. To alert you, the light will pulse. A simple light pattern will indicate if :
 - Air flow is compromised
 - Fan Failure
 - Filter breakthrough
- The **eGuard App** gives you remote control to monitor the hood, change the settings, and delivers safety alerts immediately to your mobile, tablet or PC device.

Safer to operate

- The configurable filtering system above the enclosure can be adapted to filter gases, solvents, powders and particulates keeping the user and the lab protected by safely and efficiently recirculating air within the room and releasing purified air back into the room free of any toxic hazardous vapors or odors
- Meets AFNOR NFX 15 211/ANSI Z9.5-2012 filtration efficiency standard (classes 1 and 2).
- New sensors are added for detection of solvents or acids or formaldehyde.
- New electronic anemometer monitors face velocity
- ESP Program: Usage certification delivered with each unit after approval of your handlings or process by our in-house lab.

Specifications

321

391

481

632

392

483

633

714



RANGE OF CAPTIAIR SMART (Filtering fume hoods)	321 S	321	391	481	632	392	483	633	714
Dimensions(mm)(L*D*H)	800x556x 981-1150	800x620x 1110-1285	1005x620x 1110-1285	1260x620x 1110-1285	1600x620x 1110-1285	1005x749x 1340-1515	1295x749x 1340-1515	1620x749x 1340-1515	1820x749x 1340-1515
Volume of air treated	230 m³/h	230 m³/h	230 m³/h	230 m³/h	460 m³/h	460 m³/h	690 m³/h	690 m³/h	920 m³/h
Sash opening types	Ergonomic oblong holes					Patented Reverso system			
"Reverso" door	This patented door allows for an easy access to either the lower part or the higher part of the enclosure while keeping a safe face velocity between 0.4 and 0.6 m/s.								
Voltage/Frequency	Connection to main power: 100-240V - Internal circuit: 24V-DC/50-60 Hz								
Enclosure material	Clear transparent and chemical resistant acrylic panel and electro-galvanized steel coated with anti-acid polymer								
Filtration modules	Made of injected Polypropylene								

SAFETY FEATURES

Filtration technology	Patented Modular "Flex" technology consisting of multi-layer filtration columns to handle liquids, powders or both
Filter revolving technology	Two identical molecular filters located below and above a detection chamber ensuring no chemical escape when the filter lower is saturated. Upper filter will replace the saturated lower filter and a new upper filter will be installed.
Safety alerts	Patented "Smart" technology consisting of safety alerts by LED pulsation and coded sounds expressing possible fan failure, insufficient face velocity, filter saturation.
eGuard software	Smartphone application or computer software to monitor remotely the safety functions of the Captair Smart unit, change the settings, get history of the Captair Smart usage.
Compliance with applicable world safety standards	JG/T 385-2012 : China - AFNOR NF X 15-211:2009 : France - SEFA 9 : USA - BS 7989 : England DIN 12 927 : Germany - EN 1822 : 1998 (HEPA H14 & ULPA U17 Filters) - CE Marking
Face velocity at sash openings	0.4 to 0.6 m/s according to the relevant safety standards (see below)
Face velocity meter	Electronic anemometer controlling continuously that face velocity is kept between 0.4 and 0.6 m/s. detects clogging of prefilters- HEPA and ULPA filters
Enclosure containment	Max. 0.05 ppm of SF6 detected at the manequin nose level measured according to ASHRAE 110 testing method
Molecular filters efficiency	Max. 1% of the PEL-TWA of the handled chemicals released downstream the filtration system
Filters saturation detectors	Molecode S for saturation detection by solvents - Molecode A for saturation detection by acids Molecode F for saturation detection by formaldehyde
Filtration capacity	Erlab chemical list of over 600 chemicals indicating the molecular filter capacity at 1% of the PEL-TWA of the chemicals
Tests certificates	Intertek (NFX 15-211) - SGS (SEFA 9) - Tongji University (JG/T 385-2012)
Enclosure lighting	High efficiency LED fluorescent lighting 500 lux (IP67)

FILTERS and ACCESSORIES

Carbon filters for gases and vapors	GF4 AS : For organic vapors (acid vapors secondary)- GF4 BE+ : For organic vapors and acid vapors GF4 F : For formaldehyde vapors - GF4 K : For ammonia vapors
HEPA/ULPA filters for powders	HEPA H14 filtration efficiency: 99,995% according to MPPS method, EN1822 standard ULPA U17 filtration efficiency: 99,99995% according to MPPS method, EN1822 standard
Prefilter	40% filtration efficiency for particles>0,3 µm
Mobile trolley	"Mobicap" trolley
Fixed benches	Can be equipped with gas, electrical sockets, also water , sink or cupsink together with a phenolic resin worktop
Worktops	Standard: Reinforced glass with back surface enameled coated (for all chemicals except HF) Optional: Black phenolic worktop brand TRESPALAB offering excellent chemical resistance Optional: Stainless steel worktop grade xxx when easy decontamination is needed
Transparent back panel	Clear acrylic panel for easy viewing, natural light. Can be easily dismantled for real access to instruments
Waste port	Designed for weighing stations, equipped with double bags and protective housing

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