



Captair Smart *Express** Fume Hood

Containment Ventilated Enclosures (CVEs)
USP 800 Compliant for Non-Sterile HD preparation

*Unit can be **set-up and functional in minutes** requiring no duct work.
Configured for powders, chemicals or both using carbon and/or HEPA/ULPA filters.

Laboratory Instruments; such as, liquid handlers, HPLC, rotary evaporators, mass spectrometers, and analytical balances can all release harmful chemicals, or powders, e.g. chloroform, methanol, acetonitrile, DMSO, ammonium and API's. Exposure to these chemicals are harmful. An Erlab *Express* CVE provides containment and advanced molecular and HEPA filtration for high performance source capture, protecting the lab technician and protecting the environment.

Safer to Operate

- Keeping scientists and lab personnel safe for over 50 years around the globe
- Meets AFNOR NFX 15 211/ANSI Z9.5-2012 filtration efficiency standard (class 1 and 2)
- Advanced molecular filtration captures and retains 99.99% of chemicals used in the lab
- Patented Erlab technology combines activated carbon and HEPA/ULPA to capture chemical fumes & powders

Portable, Flexible and Simpler to Use

- Ships from our factory within days of ordering
- Set-up the units in minutes anywhere in the lab without special tools – no connection to ductwork required.
- Optional Mobile Cart with wheels available to effortlessly move the unit. (Not available for all sizes)

Audio / Visual Safety Alarms

- Real time sensors to detect solvents, acids or formaldehyde
- Redundant safety filter
- Continuous air face velocity monitoring to ensure safety

Efficient and Economical

- Allows labs to be designed based on ideal work flow, and not placement of exhaust equipment.
- Reduced construction and equipment costs as no ductwork installation or HVAC upgrade is required.
- Energy efficient – uses as low as 65W of electrical power – equals typical incandescent light bulb.

Environmental Sustainability

- Environmentally sustainable as no containments are being released in atmosphere

More Application Solutions

- Multiple sizes and combinations to fit your process needs - from 3 feet to 6 feet in length. (See next page for all model specs)

For more information:

1-800-964-4434, captairsales@erlab.com, [Contact Us](#)

Applications:

Chemistry & Research Labs

Academia Teaching Labs

Pharma, Clinical & Healthcare

Compounding Pharmacies

Quality Control & Analysis



Specifications

321



391



481



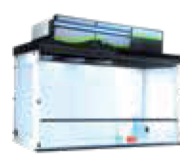
392



483



633



714



Model	321	391	481	392	483	633	714
Width (mm/in)	780 / 30.70	1005 / 39.56	1260 / 49.60	1005 / 39.56	1280 / 50.39	1604 / 63.14	1805 / 71.06
Depth (mm/in)	620 / 24.40			749 / 29.48			
Height min - max (mm/in)	1110 - 1285 / 43.70 - 50.59			1340 - 1515 / 52.75 - 59.64			
Air Flow	220 m ³ /h - 130 CFM			440 m ³ /h - 260 CFM	660 m ³ /h - 390 CFM		880 m ³ /h - 520 CFM
Sash type	Oblong			Total openings or new reverso sash			
Safety Standards	AFNOR NF X 15-211:2009 : France - BS 7989 : England DIN 12 927 : Germany - EN 1822 : 1998 (HEPA H14 & ULPA U17 Filters) - CE Marking						
Air Face Velocity	0,4 to 0,6 m/s - 79 fpm to 118 fpm						
Power consumption	65 W			105 W	160 W		220 W
Voltage/Frequency	90 - 220 V / 50-60 Hz						
Structure	Corrosion resistant electro-galvanized steel coated with anti-acid polymer						
Side and front panels	Chemical resistant acrylic						
Filtration module	Polypropylene						

Features

Smart Technology	Simple communication by LED pulsation system: fan settings, usage timer, fan failure, face velocity, automatic filter saturation detection
Filtration Technology	1 - 4 columns that can be configured to handle liquids, powders, or both
Carbon filtration for gases and vapors	AS : For organic vapors - BE+ : For organic vapors and acid vapors F : For formaldehyde vapors - K : For ammonia vapors
Particulate filtration 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
eGuard app (Android or iOS)	App for remote control to monitor the hood, change the settings, and deliver safety alerts immediately to your devices (mobile, tablet and PC).
Connectivity	RJ45 cable connection
Internal lighting	LED lighting > 650 Lux
Electronic Anemometer	Indicates the face velocity of the unit
Chemical Listing	List of approved chemicals
Work Surfaces	Trespa® Top Lab ^{PLUS} , Glass or 304L Stainless Steel

Accessories

Benches	Rolling cart (Mobicap) or Fixed bench (Benchcap)	Fixed Bench (Benchcap)
Bench equipment	Technical gases outlets, water outlets, front control valves, sink, power sockets (Only compatible with Trespa® Top Lab ^{PLUS} worktop and fixed bench)	
Particulate Pre-filter	Protects the main filter(s) from dust	
Molecode	Detection sensor for: Type S, for solvents, / Type A, for acids / Type F, for formaldehydes	
Wasteport	Double-bag with protected housing	
Transparent Back Panel	Clear acrylic panel for easy viewing	



Erlab's state of the art Research & Development Laboratory relying exclusively on filtration

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About Erlab

We provide safety, we protect your health

Inventor of the ductless fume hood, Erlab is an expert in air filtration for the protection of laboratory personnel since 1968. With over 50 years of experience and 150,000 units installed in 40 countries, Erlab offers advanced technologies that protect lives, save money, and enhance environmental sustainability. All our products are certified by experts for individual applications, ensuring that our products fully meet customer expectations.

With manufacturing facilities in the US, China, and Europe, employing highly trained engineers and scientists worldwide, we deliver solutions globally.

1 Erlab R&D Laboratory

The engineers and chemists in our state-of-the-art R&D laboratory understand molecular filtration. We are committed to designing products that are safe and of the highest quality as we strive to improve our products, and continuously develop new products that provide greater protection in the laboratory.

2 Strict Safety Standards

We hold ourselves to the highest standard and adhere to the strict AFNOR NF X 15-211:2009 filtration safety standard as recognized by ANSI Z9.5-2012.

3 A Published Chemical Listing

It all begins here. Our chemical listing directory insures we are compliant with AFNOR NFX 15-211. Our in-house laboratory tests and independent testing verifies the retention capacity of over 700 chemicals for our filters.

4 Independent Testing

Erlab filters have been independently tested multiple times at various concentrations guaranteeing that our safety solutions adhere to the strict performance criteria of the AFNOR NF X 15-211:2009 standard ensuring that the emissions concentration at the filter exhaust will always be lower than 1% of the TLV.

5 Application Questionnaire

Our laboratory specialists will recommend the appropriate filtration fume hood, type of filter, and personalized advice.

6 Certificate of Validation for the chemicals used in the hood

A certified PhD chemist issues a Certificate of Validation with a list of the chemicals approved for use in the hood.

7 Our Safety Program

We support our products 100%. This program includes your specialized chemical evaluation, validation of your hood upon installation, and your filtration safety specialist that ensures your hood is operating to its full potential.

