



Captair Weighing Stations

User protection for precise weighing tasks

SAFETY

Maximized protection with duel* H14 HEPA filters and Carbon* filtration all in one unit.

PERFORMANCE

Precision weighing of 10^{-6} grams with optimized containment.

ADAPTABILITY

Easily integrate a combination of HEPA and Carbon filters for increased handling capabilities of liquids and powders.

SIMPLICITY

Delivered completely knocked down (CKD) for ease of installation in any setting. Sets up in minutes.

CONNECTIVITY

SMART technology for real-time performance monitoring ensuring peak operation and user protection.

*Optional




Erlab's unique Flex Filtration technology allows to filter liquid and solid chemicals in molecular and HEPA filters.

Sensor to detect filters to monitor air quality at filter exhaust (available for VOC, Acids or Formaldehyde)

Slanted sash for ergonomic working position

Vibration-absorbent work surface to ensure balance stability

 Download the eGuard App for remote control and monitoring



SMART TECHNOLOGY

LED pulsation and coded sounds alarming possible fan failure, low face velocity, filter saturation, low airflow, fan failure, filter clogging (HEPA)

LED internal lighting 600 lux

Life in the laboratory becomes simpler and safer

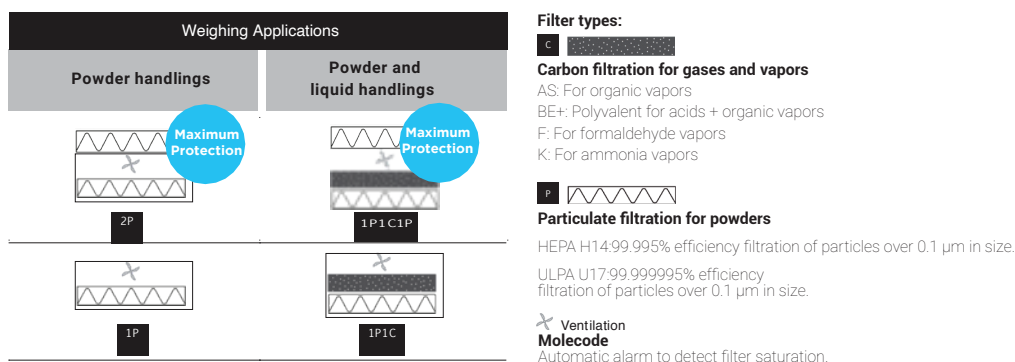
Designed specifically for powder containment applications, the Captair weighing station delivers the proper airflow at the face of the enclosure and total filtration of hazardous powders or potent pharmaceutical compounds. The enclosure is designed to allow full access to your balance and reduce airflow turbulence to maintain stability to 6 decimal places without compromising containment.

Flexible filtration column(s) for a variety of weighing applications

Captair Smart weighing cabinets can be equipped with HEPA H14 or ULPA17 filters for the weighing of powders, or with high efficiency Carbon filters for the weighing of liquid chemicals or with both, HEPA / ULPA and carbon filters.



Designed with you in mind: Our filtration column can be configured for your specific application requirements.



High user's safety guaranteed by the Containment Measurement Testing Method of ISPE (International Society for Pharmaceutical Engineering)

- The containment measurement is designed to verify that the chemical powders used in a fume hood are well «contained» in the enclosure and don't return to the chemist through the front sash or through the HEPA filter. The International Society for Pharmaceutical Engineering (ISPE) guideline specifies how to measure it with a surrogate (generally lactose) to simulate the powder weighing process. The US testing company Golder Associates Consulting Ltd. assessed (report data - November 14th, 2018 available on request) the containment capacity of the Captair 321W Smart weighing cabinet with a containment performance target (CPT) set at 1µg/m³. The results found are as follow:

Operator / Location	Measured concentration (µg/m ³)		
	Test Run 1	Test Run 2	Test Run 3
Background prior to operation	< 0.0804	< 0.0779	< 0.0791
Background during operation	< 0.0524	< 0.0576	< 0.0591
Left side	< 0.0517	< 0.0577	< 0.0591
Right side	< 0.0513	< 0.0576	< 0.0590
Front opening	< 0.0516	< 0.0577	< 0.0592
Waste transfer port	< 0.0518	< 0.0578	< 0.0592
HEPA exhaust on the top	< 0.0513	< 0.0575	< 0.0590
Operator	< 0.0515	< 0.0578	< 0.0599

All values are much below 1µg/m³ and show that the Captair 321W Smart can be used with chemical powders classified as OEB 5 (Occupational Exposure Band 5, the highly dangerous ones!) by most pharmaceutical companies.

Weighing accuracy and stability certificate

- The reliability of the weighing results have been officially tested by SIMT (Shanghai Institute of Measurement and Testing Technology) using a high precision balance (10-6 g) installed in a Captair Smart 391W (Copy delivered on request).

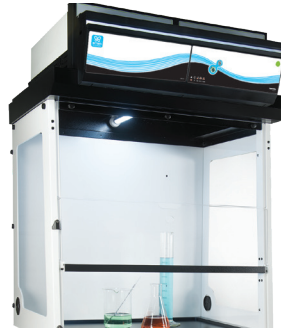
321



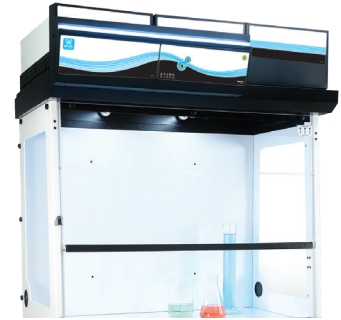
391



392



483



Standard range

Model	321	391	392	483
Safety standards	France: AFNOR NF X 15-211: 2009 - England: BS 7989 Germany: DIN 12927 - EN 1822: 1998 (HEPA H14 & ULPA U17 Filters) - CE Marking			
External width (inch - mm)	30 ^{3/4} - 780	39 ^{5/8} - 1005		50 ^{3/8} - 1280
External depth (inch - mm)	24 ^{3/8} - 620		29 ^{1/2} - 749	
External height min-max (inch - mm)	43 ^{3/4} -50 ^{5/8} - 1110 - 1285		52 ^{3/4} - 59 ^{5/8} - 1340 - 1515	
Air flow (m³/h-CFM)	220-130		440-260	660-390
Air face velocity	> 0.4 to 0.6 m/s - 79 fpm to 118 fpm			
Voltage / Frequency (V-Hz)	90-220V/ 50-60 Hz			
Number of column(s)	1		2	3
Power consumption (Watts)	65		105	160
Max. amperage absorbed (A)	0.65		1,05	1,6
Decibel level (dBA)	< 52		< 55	< 58
Door opening	Hinged Sash		Reverso Sash	
Side and front panels	Chemical resistant acrylic			
Structure	Corrosion resistant electro-galvanized steel coated with anti-acid polymer			

Filtration

Model	321	391	392	483
Particulate filter (1P)	HEPA H14 filtration efficiency: 99.995 % according to MPPS method, EN1822 standard ULPA U17 filtration efficiency: 99.99995 % according to MPPS method, EN1822 standard			
Carbon filter (optional) (1C)	Adding a carbon filter to your enclosure allows your protection from VOCs. AS filter: For organic vapors			
Particulate pre-filter	Protects the main filter(s) from dust			

Features

Model	321	391	392	483
Worktop	TRESPA® TopLab PLUS			
Internal lighting	LED - IP 44-6000K 600 lux			
eGuard app (Android or iOS)	Mobile app for real time remote control of Smart devices			
Connectivity	RJ45 cable connection to view and change workstation settings (cable included)			
Anemometer	Monitors a drop in pressure that indicates pre-filter or filter replacement is required			