Thomas Scientific

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Captair Weighing Stations

User protection for precise weighing tasks

SAFETY
Maximized protection with dual* 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

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

SMART TECHNOLOGY

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

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

LED internal lighting 600 lux

Slanted sash for ergonomic working position

Vibration-absorbent work surface to ensure balance stability

Life in the laboratory becomes simpler and safer

Captair Weighing Stations

User protection for precise weighing tasks

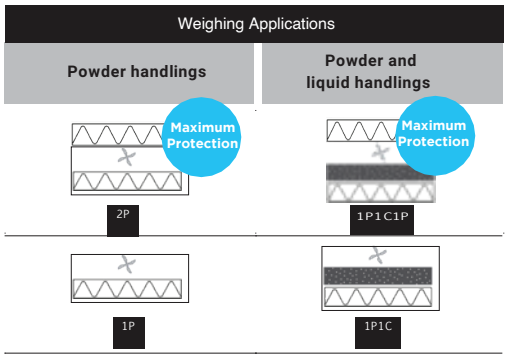
Designed specifically for powder containment applications, the Captair weighing station delivers the proper airflow at the face of the enclosure and total filtration of hazardous powders or potent pharmaceutical compounds. The enclosure is designed to allow full access to your balance and reduce airflow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

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

Captair 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.

FILTRATION TECHNOLOGY erlab Above

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



Filter types:

C

Carbon filtration for gases and vapors

AS: For organic vapors
BE+: Polyvalent for acids + organic vapors
F: For formaldehyde vapors
K: For ammonia vapors

P

Particulate filtration for powders

HEPA H14:99.995% efficiency filtration of particles over 0.1 µm in size.

ULPA U17:99.999995% efficiency filtration of particles over 0.1 µm in size.

Ventilation
Molecode
Automatic alarm to detect filter saturation.

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/m³)		
	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).

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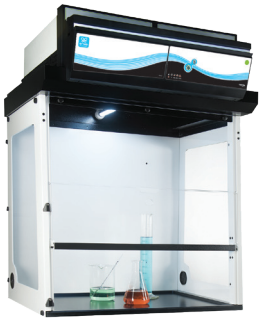
Specifications

321

391

392



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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 (m^3/h-CFM)	220		440	660
Average air face velocity	> 0,4 m/s			
Voltage / Frequency (V-Hz)	100-240 / 50-60			
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	Total			
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: 99.999995 % according to MPPS method, EN1822 standard			
Carbon filter (optional) (1C)	Adding a carbon filter to your enclosure allows you 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			
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			

Option

Model	321	391	392	483
Waste box				