



User manual Captair Flow Mobile ductless filtering clean air enclosure

Derlab Above

Captair Flow Mobile ductless filtering clean air enclosure

Contents

General	
Safety notices	
Product registration	
Start-up	4
Calibrating the electronic anemometer	
Default settings	
Description of the control module	
Description of the alarms	
eGuard App	6
Connectivity principle	
Options of connection	
Accessing the Administrator interface	
Administrator interface description	
Fan setpoints per filtration column type	
Replacing the filters	
Recommendations for storing and using the filters	
Replacement frequency for filtration breakthrough sensor (Molecode option)	
Admissible weighs on worksurfaces	
Cleaning and maintenance	22

General

Choosing Captair Flow ductless filtering clean-air enclosures is choosing an effective and responsible protection for your handlings.

Erlab's 50 years of expertise in the filtration systems for laboratories ensures the highest protection for handlings requiring an ultra clean environment. The new Captair Flow ductless filtering clean air enclosure uses an innovative and straightforward mode of communication called Smart technology. This powerful interface uses light to intuitively and effortlessly communicate with users and leave them free to focus all their attention on the main task: **their application**.

Captair Flow ductless filtering clean-air enclosures are designed to provide an ultra-clean and dust free workstation. It features a high efficiency system with HEPA H14 (or ULPA U16) filtration technology to achieve an ISO class 5* work environment according to the ISO 14644-1 standard.

The system's connectivity allows for real-time safety alerts and individual device usage reports to be sent via the e-Guard App.

*Considering a room pollution of up to ISO 9

Safety notices

Proper use, monitoring and maintenance of the device by users will assure its effectiveness. Your laboratory may also benefit from ergonomic, economic and ecological advantages provided by the Captair Flow throughout its life cycle.

- The equipment provided is not intended to be used in an explosive atmosphere.
- The filters delivered with this device must be removed from their packaging and positioned correctly.
- Erlab recommends that the electronic anemometer is calibrated at least once a year.
- New filters must be stored in their packaging, kept in a dry location. (see recommendations for storing and using the filters)



Product registration

Take full advantage of the device's connectivity to enhance your safety

Get up to 10 years warranty on your connected Erlab unit

Register your product online: the registration of the product will automatically give you one extra year of warranty (in addition to the warranty mentioned in the Erlab' general terms and conditions of sale).

Connect your unit: Once the device is connected to the Internet and configured to exchange usage data, the warranty is extended for up to 10 years. Warranty will be successively renewed at each filters replacement and for the life time indicated on the Valipass® and/or or at the end of filter usage time.

In order to benefit from Erlab extension of warranty offer, the following conditions shall be respected:

Warranty applicability is subject to the respect of the Erlab' general terms and conditions of sale and following requirements:

- The registration and/or the connection of the product shall be performed within the twelve months from the purchase date;
- Filters replacement must be performed following Valiquest® service recommendations or at the end of filter usage time; The filter's serial number, used as an identification key, validates this condition, regardless of your device's supplier (and/or the replacement filter's supplier for the following years);
- The device's replacement filters must be manufactured by Erlab, as must all other spare parts.

Consumables such as filters and saturation sensors are not covered under warranty.

Start-up

Calibrating the electronic anemometer

Be sure the sash is completely installed before starting the calibration.

1. Press and hold the mute button located on the front of the control panel while simultaneously switching on the main power button located behind the control panel (Off = O, On=I)



- 2. Release the mute button. A beep indicates that the unit has started the calibration mode. The white bar above the front of the control panel will pulse for 5 minutes and 30 seconds. Stick with just the instructions for the anemometer.
- 3. Once the pulsing light stops, the anemometer is calibrated and the unit is ready to be turned on.
- 4. To operate, push the power button located on the front control panel.

Good practices :

- Avoid any air turbulence in the area during calibration
- Anemometer should be calibrated every year and every time a modification is done on the filtration column

Having carefully followed the steps described in the installation guide, your Captair Flow ductless filtering clean air enclosure is now ready to use.

Default settings

The power switch is located at the back of the control panel.

Note: we recommend never turning off the main device power switch after the machine as been started for the first time.

The button on the control panel turns on the fan and the lights.

The green indicator light and LED light system should come on.

We also recommend verifying the operating parameters before each new use.

To modify settings, please access the administrator interface.





Description of the controller



- 1. Switch on fan and lights in workstation
- 2. Silence the alarm (Mute key)
- 3. Smart-Light: pulses when an alarm occurs
- 4. Alarms pictograms to indicate which alarm is active



Smart Technology communicates simply about performances and filter efficiency of your product via a LED band of light called Smart-Light. This light signature casts a steady LED glow when unit is operating properly. If normal operation is disrupted, the LED signature simply pulses, drawing the attention of the operator only when necessary.

Description of the alarms

Note:

When using the Mute key to silence the alarm, please note the alarm can be triggered again if the problem has not been fixed. Resetting alarms via the Mute key will consequently modify usage settings. Please access the administrator interface to verify user settings.

Alarm type	4)	Light signal	Problem	Details	Silence the alarm	Reset the alarm
Air speed						
•	1 beep 5 seconds apart	Pulses	Low air speed	The air speed value is <0.3 m/s	Press Mute key	Please check the front sash is correctly closed Check particulate filter. If the filter is not clogged up, perform a new calibration of the anemometer (with door opened)
Fan						
	2 beeps 5 seconds	Pulses	Fan fault	The rotation speed (RPM) is +/- 10% of the fan setpoint.	Press Mute	Please contact Erlab or your
••	apart	1 01303	Fan Unserviceable	The rotation speed (RPM) is < 700 RPM	. key	usual maintenance contact.
Filtration						
	3 beeps	Pulsos	Filter breakthrough (Molecode S/A/F option)	The Molecode detection value is > the sensitivity setting for a period of 40s.	Press Mute	Please contact Erlab or your
	apart	FUISES	Replace filter	The filter(s) has/ have reached the end of their service life/lives	key	usual maintenance contact.
Filter breal	kthrough senso	r replacemer	nt (Molecode)			

Captair Flow

Mobile ductless filtering clean air enclosure

Alarm type	• ()	Light signal	Problem	Details	Silence the alarm	Reset the alarm
	4 beeps 5 seconds apart	Pulses	Filter breakthrough sensor replacement (Molecode S/A/F option)	The sensor has reached the end of its service life.		Please contact Erlab or your usual maintenance contact.

Reset network settings

Forgot network settings? Follow these steps to reset the IP address:

- The main power switch is in the "On" position (located on the left of the controller behind the panel)
- The workstation should not be running (no lights or fans are "On"),
- Hold in the mute button for «10» seconds
- Wait until you hear «click», «click»
- Release the mute button
- Reboot unit:
 - 1. Turn the power switch to the "Off" position (located on the left side of the controller).
- 2. Turn the power switch to the "On".
- The Primary IP address to use is 192.168.0.200.

Note: In some cases, you may need to use the secondary IP address 192.169.0.200.



Welcome to a safer connected world

The connectivity of Erlab Smart devices allows you to monitor all your safety settings remotely. After registering your product on line, download eGuard App and:

- Stay in touch wherever you are
- Receive safety alerts
- Access your statistics usage
- Make the most of an exclusive warranty program

Connectivity principle

Ecosystem designed for simpler use and safer protection



3 methods of connection to the Smart Portal	Embedded service	Mobile app	PC app
Conditions of use	Direct connection on PC with data cable (RJ45)	Web connection (via 3G/4G)	Web and/or local connection
Hardware requirements	1 PC + 1 cable	1 Apple or Android Smartphone	1 PC connected to Internet or local network
Parameters	Monitoring + Controlling	Monitoring	Monitoring + Controlling
Data access	One unit	Multiple units	Multiple units
Historical data access			
Historical data download	<		
Alerts		S	S
Monitor multiple devices		<	<
Allow multiple user accounts			
Automated status report			<
Download		Available on the App Store	available on www.erlab.com

Options to connect

Embedded service



Mobile or computer app



Captair Flow Mobile ductless filtering clean air enclosure

Accessing the administrator interface

To monitor the parameters and modify the settings of the unit.

In order to connect:

- Use a computer equipped with an Ethernet port (to plug the RJ45 cable)
- WIFI of the computer must be switched off
- Web browser (Internet Explorer, Edge, Chrome, Mozilla Firefox, Safari, ...) must be installed on the computer

Note: RJ45 cable used to plug the unit to the computer is provided.



Direct connection on computer



• Take RJ45 cable (black) is already connected to the unit and placed behind the back of the control panel.

Ë	IC	90	- 264	v	
	F	0	1		
	L				

• Check that main switch of the device is **ON.**

2







You are connected to the embedded software You enter the « Status » page and you can have access to the « Settings » using the following credentials:

Login : erlab / Password : smart

\Box Can't reach this page \times +		– 🗆 X
\leftarrow \rightarrow D 192.168.0.200		
	P Hom, we can't stack this page. Take - Hom Comparison of the stack stack stack stack stack - Homo Comparison - Homo	
Search the web and Windows	0 <u> </u>	Reyste B Troubleshoot problems Open Network and Sharing Center Part No. Sec. March 22(1/20)
Page	e is not accessit	ole

Computer network parameters are not allowing the access to the embedded software.

Apply the following procedure

Please go to page 12

Page is not accessible

3 Modify computer network parameters

	\Box Can't reach this page $ imes$ +				-		×
	\leftarrow \rightarrow O \mid 192.168.0.200		☆│	=	Ø	٩	
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oft oligik	Troubleshoot problems						_
	Open Network and Sharing Center	^	Ë]	1))		DEU
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4

Access to the Network and sharing center



Access to the network connection

5

6

Network Connections							-	Ø	×
$\leftarrow \rightarrow$ \checkmark \uparrow 👰 \diamond Control Panel \diamond Net	work and Internet > Network	Connections >		~	ڻ م	Search Netw	ork Conr	ections	Q
Organize Disable this network device	Diagnose this connection	Rename this connection	View status of th	his connection	»				?
Ethernet erlab.local Intel(R) PRO/1000 MT Desktop Ad. Right click	 Disable Status Diagnose Bridge Connections Create Shortcut Delete Rename Properties Ck to access p 	Wi-Fi Non connecté Intel(R) Dual Band	Wireless-AC 72	Note : your W discon	This /IFI nec	s confirn is ted!	าร		

Enter compatible network parameters as indicated below



Write down your existing parameters before changing them in order to be able to set your initial parameters after the operation!

Protocole Internet version 4 (TCP	/IPv4) Properties	Х
General		
You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings.	automatically if your network supports eed to ask your network administrator	
Obtain an IP address autom	atically Enter the following	
Use the following IP address	parameters:	
IP address:	192.168.0.100	
Subnet mask:	255.255.255.0	
Default gateway:		
Obtain DNS server address	automatically	
Use the following DNS serve	er addresses:	
Preferred DNS server:		
Alternate DNS server:	· · ·	
Validate settings upon exit	Validate Advanced	
	OK Cancel	



Open your web browser again, type again the following IP address <u>192.168.0.200</u> and validate

SMART	× +				_	-	×
$\leftarrow \rightarrow 0$	http://192.168.0.200			Ш ☆	=		\$
	Gerlab Simpler Safer	Status Settings	(S) History				
	SN: 50100-1801 MAC: 54:10-EC:7A:82:47	CAPTAIR FLOW 321 SMART • Your device is running. • The fan is furned OFF or an alasm	Clean air hood	O Locate me			
	G FILTRA	NTION	S FAN				
		USAGE TIM Gv House tim	E ca				
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OK : You are connected to the embedded software

You enter the « Status » page and you can have access to the « Settings » using the following credentials:

Login : erlab / Password : smart

Administrator interface description

Enter the unit IP address into the address bar of your browser in order to access the embedded sotware.

A	You can breathe.	1 Status	© Settings	History	
	2	CAPTAIR FLOW	321 SMART	Clean air hood	đ
0	SN: 50100-1801 MAC: 54:10:EC:7A:82:47	 Your devic The fan is 	e is running. turned OFF or an alarm is a	activated.	4 O Locate me
	5 🛞 FILTE	RATION		6 🔂 F	FAN
		7	USAGE TIME Day Hours Minure		
		7	USAGE TIME Day Hours Mnure 158 06 12		
	Alarms	7	USAGE TIME Dev Hours Meures 158 06 12	3	Sound Volume:

Stat	us page details
1	Choose active interface page
2	Device ID: Model
3	Device ID: serial number, MAC address, device status
4	Unit location
5	Molecode Option Gauge: indicates the sa- turation level of the main carbon filter(s)
6	Fan Gauge: Indicates the fan status
7	Device use time since fan was last started
8	Device alarm statuses (see alarm triggering conditions)
9	Volume setting
10	Embedded service version
11	Choose language

Access to the settings is protected by the following credentials:

User name: erlab Password: smart

You can breathe.	0	•	0	
	Status CAPTAIR FLOW 32	Settings 1 SMART	History Clean air hood	
SN: 50100-1801 MAC: 54:10:EC:7A:82:47	 Your device is The fan is turn 	running. ed OFF or an alarm is activa	ted.	O Locate me
Modify settings and press Update				
Date/Time Date: 04/02/2019	Hours: 10 Minutes: 3	0 am 🔻		7 Update
- Mode Static IP - Hostname ER-321F-50100	- IP 192 168 - MASK 255 255 - GW 192 168	254 8 0 0 24	0	
Data exchange with eGuard App a	ctivated 🧝			Update Reboot
Fan Setpoint: 2400	RPM (Min: 1200 RPM Max: 2500	RPM		Update
Filter saturation alarm Sensor Type: Molecode S New Sensitivity: Background Noise:	Medium sensitivity /2018 Next replaceme	nt date: 01/02/2023		Update
Filter expiry date Select Filter: AS Last replacement: 04/07/2018	Next replacement	in 515 Day		Update
Embedded Service v3.1.4 A	@ 2016	Erlab. All rights reserved.		● ⊕ ⊕ ● ● ●

Captair Flow Mobile ductless filtering clean air enclosure

Settings	s page details
1	Device time and date settings
2	Device network settings Mode: Selected IP protocol Hostname: Device name on network IP: IP address of the device MASK: network mask GW: Network gateway Modify network settings : Default mode : DHCP Each unit is identified with its hostname : ER-UNIT-S/N Hostname example for a Captair 321 Smart, S/N: 25698
	Hosname will be: ER-321-25698 This hostname is displayed on the IP Adress label located on the back of the control panel If the unit is not connected to a DHCP servor, the unit will automatically switch to its defaut IP address: 192.168.0.200
3	Activate/Deactivate the exchange of information This allows the transmission of information from the device to the eGuard server for: - remote monitoring via eGuard App (mobile &PC) - receiving usage reports
4	Device fan setpoint settings
5	Alarm saturation filter (Molecode option) Sensor type indication: Solvents Sensor sensitivity settings: : 5 settings (capteur S): High sensitivity, Medium/High Sensitivity, Medium Sensitivity, Medium/Low Sensitivity, Low Sensitivity Sensor replacement : Enter replacement sensor date, display the next sensor replacement date
	Filter replacement date:
6	Indicates the filter type (AS: organics vapors / HP : powders) For units equipped with carbon and HEPA filters, please use the carbon filter indication Last replacement: Counter showing the number of days the filter(s) can be used relative to its/their service life expiry date
7	Confirm settings key (please validate each setting)

You can breathe.	Status	Settings	*S History	
	CAPTAIR FLOW 32	21 SMART	Clean air hood	I.
SN: 50100-1801 MAC: 54:10:EC:7A:82:47	 Your device in The fan is tur 	s running. ned OFF or an alarm is a	activated.	O Locate me
Events history 2019/02/04 - 10:07: Molecode S: Settii 2019/02/04 - 10:05: Molecode S: Settii 2019/02/04 - 10:05: Molecode S: Settii 2019/02/04 - 10:03: Device in Operatio 2019/02/04 - 10:03: Device stopped 2019/02/04 - 10:03: Device stopped 2019/02/04 - 09:48: Device in Operatio 2019/02/02 - 12:25: Device stopped 2019/02/02 - 12:25: Device stopped 2019/01/29: 14:09: Device in Operatio 2019/01/29: 14:09: Device in Operatio 2019/01/28 - 10:59: Device in Operatio 2019/01/11 - 09:59: Molecode S: Settii 2019/01/11 - 09:59: Molecode S: Settii 2019/01/11 - 09:52: Molecode S: Settii 2018/12/17 - 15:06: Face velocity alarr 2018/12/17 - 15:06: Device stopped 2018/12/17 - 15:00: Device stopped 2018/12/17 - 15:00: Device stopped 2018/12/17 - 15:00: Device stopped 2018/12/17 - 14:58: Face velocity OK	ng Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) n n n n n n n n n n g Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) ng Updated(Sensor sensitivity) n n n n n n			
2018/12/17 - 14:58: Face velocity alar 2018/12/17 - 14:57: Device in Operatio 2018/12/17 - 14:55: Device stopped 2018/12/17 - 14:55: Face velocity OK	n m			2 Download History

Log page details		
1	Displays the device's event log	
2	Used for downloading the log in .csv format	

Fan setpoints per filtration column type

Unit / Type of filtration column	1P	1C1P	
321			
391	2000 NEIVI		
483	2200 RPM	2200 RPM	
	2100 RPM	2100 RPM	

Captair Flow Mobile ductless filtering clean air enclosure

Replacing the filters

Your device is equipped with FLEX[™] filter technology that was configured to the sample's protection needs when the device was purchased. The configuration of the filter column is dependent on the applications carried out in the enclosure. These applications may change over time. Your FLEX[™] filter technology can therefore be reconfigured if your workstation is used for applications other than those anticipated when the device is first set up. If so, please contact us so that we can verify that the current configuration is safe or it needs to be reconfigured.

The table below summarises all possible Flex™ filter technology configurations for your device

	Captair Flow 321 - 391 -Smart models			
	Molecular filter	Particulate filter	Pre-filtre	
Column Configuration	Transformer			
1P	-	x1	x1	
1C1P	x1	x1	-	

	Captair Flow 483 - 714 -Smart models					
	Molecu	lar filter	Particul	ate filter	Pre-	filtre
Column Configuration	ion					
	483	714	483	714	483	714
1P	-	-	xЗ	x4	x3	x4
1C1P	xЗ	x4	xЗ	x4	-	-



The table below summarises the different types of filters that Erlab® offers along with their fields of application.

Type AS	For organic vapors	
HEPA H14	For particles	
ULPA U16	For particles	

Filter Replacement Procedure



For these operations, we strongly recommended that the user or service engineer wears the necessary safety equipment, including: safety glasses, lab coat and gloves

Switch off the workstation

Remove the covers from both sides or front of the workstation



Disconnect the power supply to the fan





Captair Flow Mobile ductless filtering clean air enclosure

Models Captair Flow 321 - 391 Smart

Identify which column configuration below applies to your workstation.

Unstack the filtration column(s) above the workstation.

After carrefuly removing the filters from their packaging, assemble the column per the configuration below. If your column configuration changed, Apply the correct fan setpoint for the filtration column configuration (see fan setpoints)



1C1P

Models Captair Flow 483 - 714 Smart







When reassembling the filtration column, be sure that the fan module is positioned correctly to access your connection points.

Reconnect the power supply to the fan

Recommendations for storing and using the filters

New filter shelf life and storage conditions:

New activated carbon molecular filters must be stored flat in their original packaging at a temperature of between $+10^{\circ}C/50^{\circ}$ F and $+40^{\circ}C/120^{\circ}$ F and a humidity level < 85% RH.

HEPA H14 and/or ULPA filters must be stored upright and kept dry.

If these conditions are respected, the maximum time a filter can be stored before use depends on the type of filter:

AS type carbon molecular filter	1 year from the date of delivery
HEPA/ULPA filter	2 years from the date of delivery

If the maximum shelf life is reached, we recommend not to install filters.

Filters replacement frequency

- Prefilters(s) should be replaced every year.
- HEPA/ULPA filters should be replaced every 3 years on average.
- Molecular filter should be replaced every 2 years on average.

Replacement frequency of carbon filter saturation detection (Molecode option)

Molecular filters saturation detector – Molecode S (solvents) is installed as an option in your unit and use a semi-conductor that must be changed every **5 years**.

After this period, Erlab cannot guarantee performances stability nor detection sensitivity.

Equipment replacement requires the intervention of a qualified engineer, able to replace internal components and perform system new configuration. The change requires less than one hour.

Erlab Maintenance department and accredited partners can provide this service. (service not available in all countries).

For further information, please get in touch with your contact person or Erlab dealer/distributor or visit our website.

Admissible weights on worksurfaces

The chart below reflects loads that are evenly disributed across the work surface.

	Trespa® Top LabPLUS	Stainless steel work top
Captair Flow 321 Smart	35 kg	35 kg
Captair Flow 391 Smart	50 kg	45 kg
Captair Flow 483 Smart	80 kg	80 kg
Captair Flow 714 Smart	115 kg	115 kg

Cleaning and maintenance

Mechanical item checks

- **Hinges:** Hinges must be properly attached and must allow any items on the front side of the workstation to be instantly and easily lifted upward.
- Acrylic Parts: Ensure the transparency of the panels is a part of regular maintenance for the enclosure.

Cleaning the enclosure

The enclosure must be cleaned on a regular basis. This may be accomplished in several ways:

- With soapy water followed by rinsing with clear water and drying with a soft, non-abrasive absorbent paper towel.
- Or with a commercial pH neutral product followed by drying with a soft, non-abrasive, absorbent paper towel.
- Or with a non-alcoholic disinfectant detergent.

Coated metal parts

- These must be inspected and free from any traces of corrosion.
- Check that there is no stagnant water in the spill tray.
- Clean the spill tray if necessary.





About Erlab

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

We provide safety, we protect your health

Erlab invented the ductless fume hood in 1968. With more than 50 years of experience in the field of chemical filtration and protection of laboratory personnel; we know the formula for safety. With Erlab, you will never have to wonder or worry if our products are safe. We build each one of the following 7 ingredients into our products, and without all of them, your health and safety will be compromised.

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, strive to improve our products, and continuously develop new products that provide greater protection in the laboratory.

2Strict Safety Standards

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

3A Published Chemical Listing

It all begins here. Without this listing, we are not compliant with AFNOR NFX 15-211. Our in-house laboratory tests, as well as independent testing, to verify the retention capacity of over 700 chemicals for our filters.

Independent Testing

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

5 Application Questionnaire (Valiquest)

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.

🔽 Our Safety Program

We back up our products 100%. This program includes your specialized chemical evaluation, validation of your hood upon installation, and a filtration safety specialist at your service to ensure that your hood is operating to its full potential.

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