

PROACTIVE. NOT REACTIVE.

*Do not wait for potentially injurious and catastrophic failures
Keep your fume hoods operating safely
Prevent costly, unexpected shutdowns and loss of hood utilization
Sustain and improve workplace ergonomics*

LF Systems Corp, a leader in the specification, installation and maintenance of fume hoods now offers three comprehensive maintenance programs, targeted at extending the life of your hood investment. We work to minimize impact on your operation:

- Repair most hood components with minimal HVAC disconnect
- Interior equipment configuration remains in place
- Focus on the sash drive systems to reduce the force needed to raise and lower the sash

- ◆ **Sash Rebuild Program (SRP)** - Clients will often seek fume hood repair services only after fume hoods have failed in some manner. We are equipped to analyze and repair fume hoods manufactured by almost any vendor, restoring the hoods to full operation. Following repair, we will suggest enrollment in our Preventive Maintenance Program (see directly below).
- ◆ **Preventive Maintenance Plan (PMP)** - If our initial analysis indicates that your hoods are simply in need of lubrication and adjustment, we will suggest enrollment in our Preventive Maintenance Program. This program will service your hoods on a periodic basis (see list of activities below), to assure reliable and safe mechanical operation. A 1 or 3 year term of service is available.

PMP - Maintenance activities for cable driven hoods **

- Open and close force analysis of current sash system with written report
- Once PMP is completed a new analysis will be submitted showing improvements
- Removal of all miscellaneous debris from cable area
- Cleaning pulleys with special solvent and purging with pressurized air
- Lubrication of pulleys and cables with custom synthetic oil
- Cleaning and Lubrication of all extension slides - if part of the guide system
- Adjustment of sashes and counterweights for proper movement and alignment
- Recommendations on replacement parts if necessary

** For Chain driven hoods, substitute "chains and sprockets" for "cables and pulleys".

- ◆ **Hood Enhancement Program (HEP)** - Our familiarity and experience with the installation, repair and maintenance of fume hoods enables us to offer the following list of hood enhancements to better equip your hoods for the types of operations being performed. You will save significant dollars, while improving your lab environment. We look forward to customizing your hoods to your specific research needs.
 - Convert vertical rising sash system to horizontal sliding sash configuration
 - Modifications to depth or height of fume hood
 - Rebuild cable and pulley sash drive mechanism
 - Rebuild chain and sprocket sash drive system
 - Replace fume hood liner and baffles
 - Replace sash glass
 - Replace base cabinets, add knee space or set hood on a welded table frame
 - Add Flexascope service manifold and valves
 - Add distillation section or lattice
 - Add sash stops or locks
 - Add interior shelving
 - Add a ceiling enclosure
 - Add side wall equipment pass through or cord/tubing pass through

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Fume Hood Sash Maintenance – Sample Report

Bldg	Floor	Room Number	Hood Manufacturer	Hood Number	Size	Sashes Qty.	Comments	Rating
4	1	101		FH-4-05	48"	1	SINGLE VERTICAL RISING	A
4	2	212		FH-4-14	120"	4	QUAD VERTICAL RISING, FRAMED SASHES RECABLED/REPULLIED SASH 3	A
2	1	110		FH-2-02	72"	2	DUAL VERTICAL RISING, PULLIES SHOWING SIGNS OF WEAR, REPLACE IN NEXT YEAR	C

	Load Test Before Preventative Maintenance				Load Test After Preventative Maintenance			
	sash 1	sash 2	sash 3	sash 4	sash 1	sash 2	sash 3	sash 4
UP	10.79				3.16			
DOWN	12.97				6.54			
UP	27.48	6.4	14.12	15.86	11.9	3.59	5.17	5.6
DOWN	24.21	10.36	16.47	24.42	11.64	7.07	10.56	10.81
UP	20.79	30.79			13.99	12		
DOWN	22.8	40.69			16.92	14.06		

Fume Hood Maintenance Programs

Request for additional information (We will reply by email or phone call)

Desired Plan (circle all that apply)

SRP

PMP

HEP

Name _____

Company or Institution _____

Phone _____

Email address _____

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CURRENT FUME HOOD PMP CLIENTS

DuPont

Dow

GlaxoSmithKline

FMC

Agilent Technologies

Pfizer

PPG

Air Liquide

Delaware Technology Park