



# The Green Solution Hood

**The Green Solution Hood** with proprietary Neutrodine® Filtration Technology:  
Save energy without compromising usage, performance or safety.

The Green Solution Hood—with the breakthrough Neutrodine® system by ErLab®—offers a revolutionary turnkey solution providing a variety of installation, operational and environmental benefits to virtually any laboratory. Compared to traditional fume hoods in operation today, The Green Solution Hood with Neutrodine® Technology enables labs to:

- Save energy while maintaining 100 fpm face velocity.
- Cut energy costs by 96% and reduce operating costs by 70%.
- Eliminate associated heating and cooling costs.
- Handle liquids and solids (including acids, bases, solvents and powders)—individually or together—with a single hood.
- Eliminate CO<sub>2</sub> emissions.
- Virtually eliminate installation costs.
- Operate safely without polluting and contaminating the environment.
- Maintain productivity without changing the way lab technicians work.
- All fume hoods are certified with a Life Cycle Payback. This certification by our lab assures researcher safety as well as economic feasibility



patent pending

**1** All manufacturers' products are similar.  
Not any more: **The Green Solution Hood** is a filtering fume hood that uses multitask Neutrodine® filtration technology instead of standalone carbon filtration commonly found in application-specific products known as ductless fume hoods. Furthermore, **The Green Solution Hood** combines the highly versatile proprietary Neutrodine® filtration technology with the revolutionary gGuard monitoring package to offer a much larger usage spectrum than has ever been available before. Neutrodine®—which is in compliance with the ASHRAE 110-1995 and AFNOR NF X 15-211 filtration standards—enables **The Green Solution Hood** to exhaust 100 times less toxic contaminants than are allowed by the official TLV while maintaining the industry's preferred 100 fpm face velocity at various working sash heights. In addition, gGuard gives **The Green Solution Hood** owners total control and an unprecedented level of safety.

**2** There are a great variety of chemicals in the lab and carbon filters are too specific.  
Not any more: Neutrodine® can handle the majority of chemicals traditionally used in laboratories\*. Furthermore, thanks to the world's first Adaptable Modular Filtration Column (AMFC), **The Green Solution Hood** can handle liquids and powders—either individually or together—even in a cleanroom environment.

**3** Heavier molecules can push out lighter molecules.  
Not any more: This problem only occurs with low quality carbons or carbons that are specifically designed to desorb such as the carbon used in industrial filters to recover solvents. Neutrodine® filtration technology uses a proprietary high quality carbon with a plurality of pores so large and diverse that both light and heavy molecules are retained independent of one another.

If high quality carbon were able to desorb, military gas masks would be rendered useless by an enemy simply releasing a heavier gas. Obviously this isn't the case. High quality carbon is trusted in applications worldwide, even when—as in this example—reliability is a matter of life and death.

**4** In the event of a spill, carbon filtration has limited capacity for containing large concentrations of chemicals.  
Not any more: **The Green Solution Hood** uses Neutrodine® Technology instead of the standalone carbon filters found in limited application ductless fume hoods. Test reports show that **The Green Solution Hood** with Neutrodine® Technology delivers back-up redundancy capabilities capable of containing chemical spills in excess of 1 gallon.

**5** Carbon filtration requires controlled conditions, operator intervention and constant monitoring. Ducted fume hoods are much simpler to use.  
Not any more: Unlike application-specific products that require operator intervention, **The Green Solution Hood** with Neutrodine® Technology is very simple to use. Activating an on/off switch is the only responsibility required from the operator. All other functions are controlled and monitored with the help of the gGuard management package. This system—which uses proprietary software developed with Microsoft® technologies—makes **The Green Solution Hood** with Neutrodine® Technology easier to use since safety-related functions are taken out of the hands of the operator and handled remotely, and constantly, by the person(s) in charge of safety. **The Green Solution Hood** with Neutrodine® Technology also features a series of innovative detectors and monitors that provide a wealth of operational information and management capabilities never before seen in a laboratory fume hood.

**6** Filters are expensive and difficult to change.  
Not any more: Unlike previous generations of filters, we are able to estimate the life of your filters with our Life Cycle Payback. Simply fill out our questionnaire to find out if our system is not only safe for your application, but economical as well. When it comes time to change the filters, no special tools are required and you will be back up and running within an hour.



## The Green Solution Hood

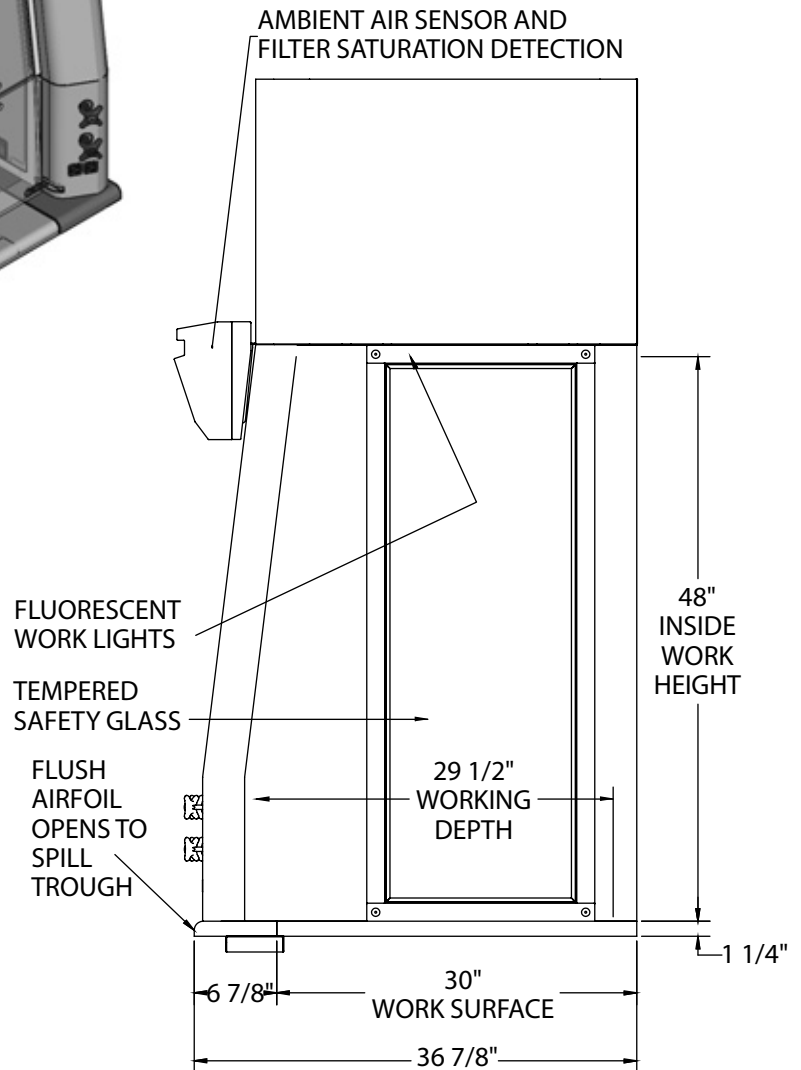
**Unprecedented safety in a hood that uses 96% less energy than standard hoods and has an operating cost 70% lower.**

The Green Solution Hood and its patented Neutrodine® filtration system by Erlab® use molecular adsorption to handle fumes from acids, solvents, liquids, and even powders with the use of a HEPA filter accessory, together or individually all under the same hood.

**U.L. 1805  
Classified**

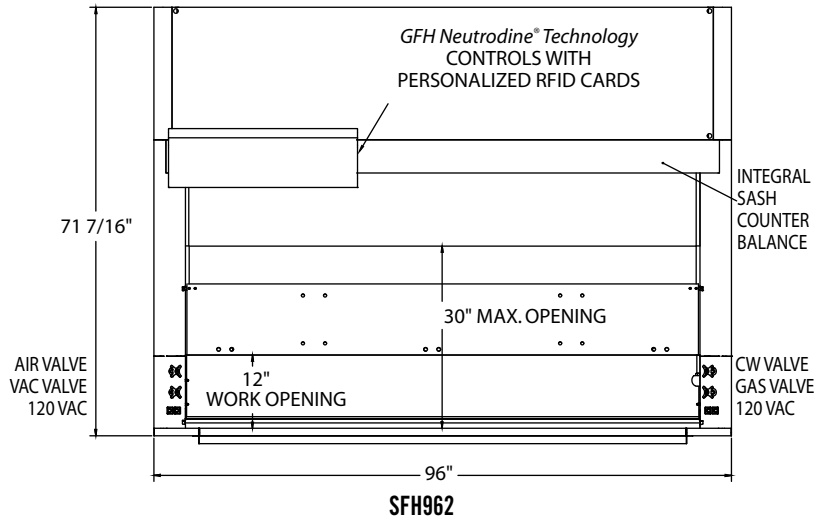
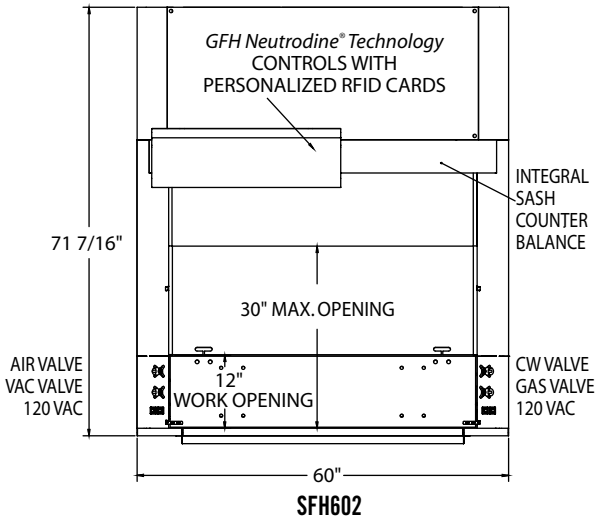
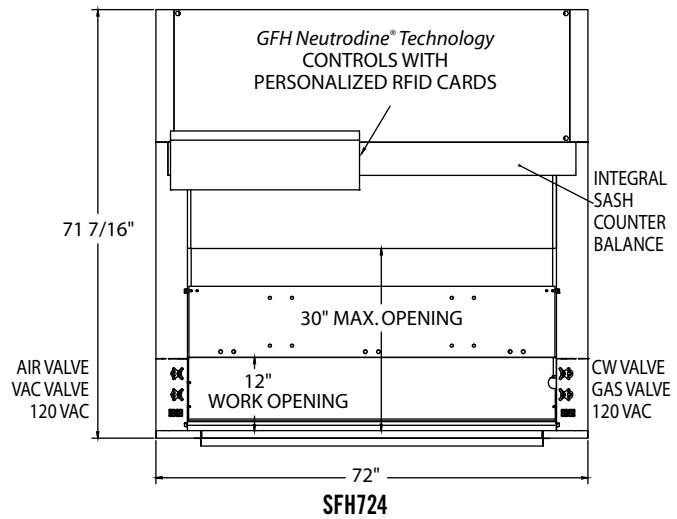
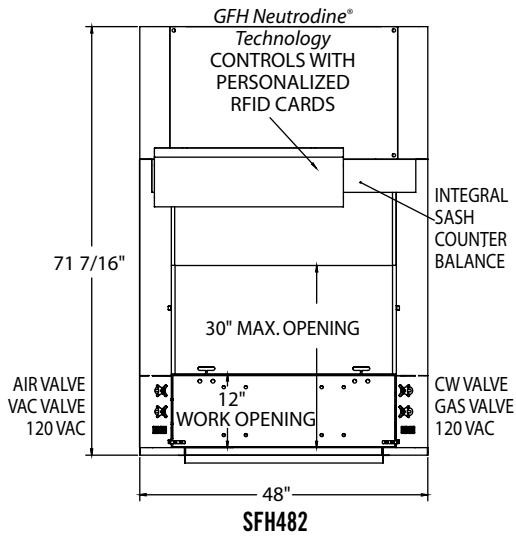
### The Green Solution Hood Standard Features

- 360 degree viewing
- Powder Coat Finish
- Flush-Mount Airfoil
- Integral Sash Counterbalance
- Four Service Fixtures
- Two duplexes
- Epoxy Top
- Hinged/Sliding Sash
- Interior Access to Plumbing
- Hinged/Telescoping Sash



# The Green Solution Hood

**APPLICATIONS:** Higher Education; Industrial; Private Research



| Part Number | Superstructure |          |         | Worktop |        |     | Hood Opening |     |
|-------------|----------------|----------|---------|---------|--------|-----|--------------|-----|
|             | W              | H        | D       | W       | H      | D   | W            | H   |
| SFH482      | 48"            | 71-7/16" | 36-7/8" | 48"     | 1-1/4" | 30" | 38"          | 30" |
| SFH602      | 60"            | 71-7/16" | 36-7/8" | 60"     | 1-1/4" | 30" | 50"          | 30" |
| SFH724      | 72"            | 71-7/16" | 36-7/8" | 72"     | 1-1/4" | 30" | 62"          | 30" |
| SFH962      | 96"            | 71-7/16" | 36-7/8" | 96"     | 1-1/4" | 30" | 86"          | 30" |

100fpm @ 12" open; 60fpm @ 18" open

## The Green Solution Hood Accessories

The Green Solution Hood can be remotely accessed with the use of a gGuard Onsite with a PC/pocket device or gGuard online which provides both monitoring and maintenance services via the Internet. gGuard will tell you real-time filter condition, sash position, blower motor speed, filter saturation level, ambient laboratory air, enclosure temperature, energy savings data and usage time. Visit [www.airmastersystems.com](http://www.airmastersystems.com) for more information.