

DetectAir



FILTERED FUME HOODS

KEWAUNEE®

...encouraging new discovery

KEWAUNEE® *DetectAir*

Filtered Fume Hoods
powered by **AirClean® Systems**

DetectAir
AirClean Systems

FILTER SCAN
Kewaunee
AirClean Systems



DetectAir Filtered Fume Hoods

The next generation fume hood, inspired by tradition, designed for safety and energy savings

Kewaunee understands fume hoods! For over a century, Kewaunee has been an innovator in the design and manufacture of laboratory casework, fume hoods, and lab equipment. Now, with the introduction of DetectAir, the filtered fume hood has come of age.

DetectAir combines Kewaunee's traditional fume hood expertise with the filtering technology of AirClean Systems. DetectAir filtered fume hoods incorporate an exclusive on-board validation system which identifies chemicals as acceptable or non-acceptable, with a triple level detection system to ensure user safety ...hence the name **DetectAir**. It also features AirSafeTOUCH, an automatic touch screen control system for simple operation. With Kewaunee's new DetectAir, the questions and concerns revolving around filtered hoods and user safety have been answered. DetectAir can be used as a general purpose fume hood in a broad spectrum of applications within the modern laboratory.

Go filtered with Kewaunee

Safety:

- AirSafe TOUCH Automatic Safety Controller with:
 - FilterStat validation
 - Real-time PPM filter monitoring
 - Three level gas detection
- Full baffle system for proper air flow
- Flush Sill Airfoil

Performance:

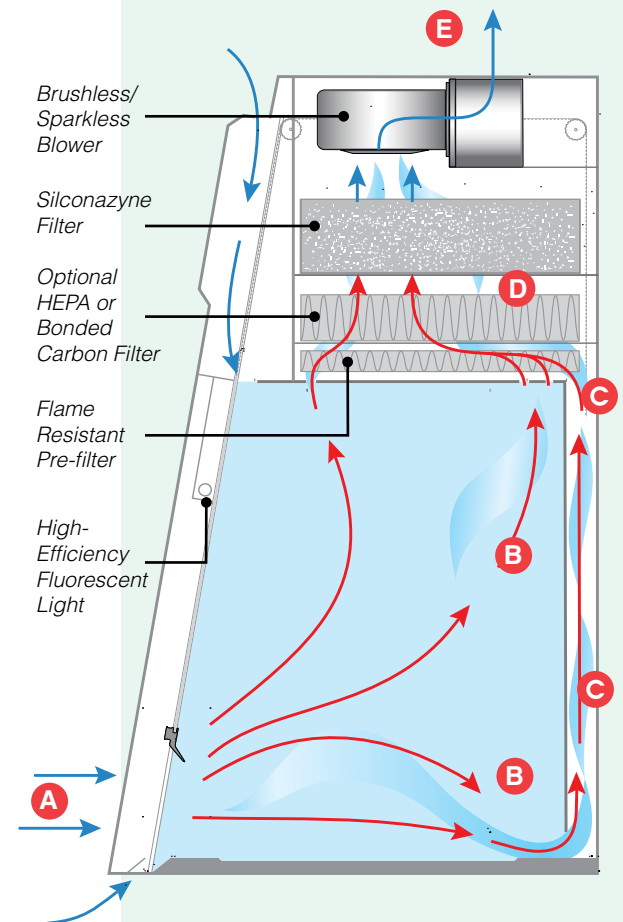
- Ductless design significantly reduces installation costs
- Energy savings
- Silconazyne bonded filters
- Commstat remote monitoring system
- Automatic airflow control system
- Push button sash operation
- ASHRAE 110 and SEFA 9 tested

Construction:

- Full view sash
- Designed to fit under nine foot ceilings
- Chemical resistant, one-piece liner, and baffle
- Removable front panel for simple filter access and replacement
- Designed, tested and manufactured in the USA
- Available in all standard Kewaunee powder coat colors

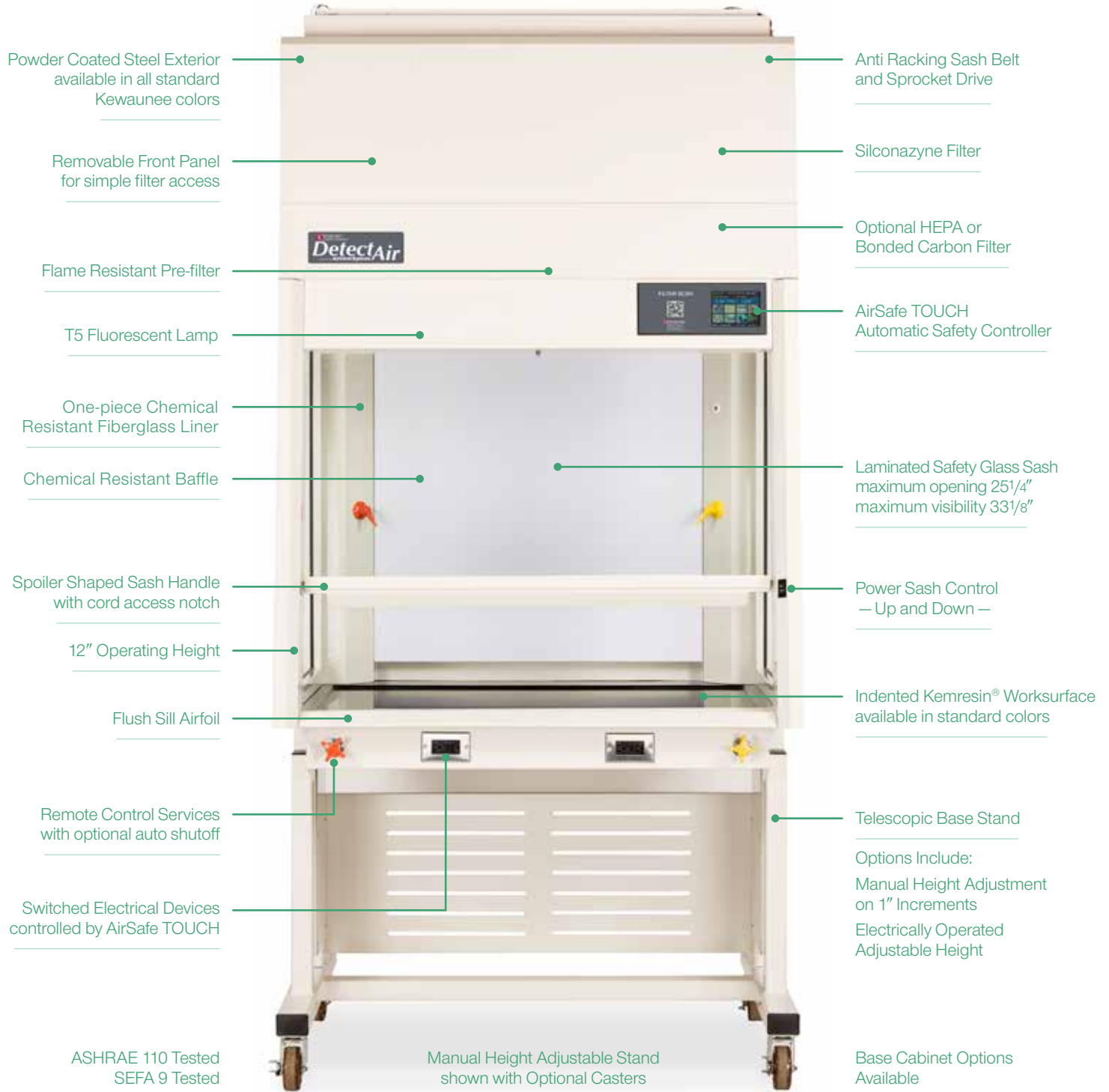
How the DetectAir filtered fume hood works:

1. Room air flows away from the operator and enters the hood in a horizontal pattern at **A**.
2. Room air mixes with both lighter and heavier gases at **B** before being drawn into the baffling at **C**.
3. Contaminated air is directed through the filtration bed at **D**.
4. Clean air is recirculated into the room at **E**.



DetectAir

powered by **AirClean® Systems**



Powder Coated Steel Exterior
available in all standard
Kewaunee colors

Anti Racking Sash Belt
and Sprocket Drive

Removable Front Panel
for simple filter access

Siliconazyme Filter

Flame Resistant Pre-filter

Optional HEPA or
Bonded Carbon Filter

T5 Fluorescent Lamp

AirSafe TOUCH
Automatic Safety Controller

One-piece Chemical
Resistant Fiberglass Liner

Laminated Safety Glass Sash
maximum opening 25¹/₄"
maximum visibility 33¹/₈"

Chemical Resistant Baffle

Spoiler Shaped Sash Handle
with cord access notch

Power Sash Control
— Up and Down —

12" Operating Height

Indented Kemresin® Worksurface
available in standard colors

Flush Sill Airfoil

Remote Control Services
with optional auto shutoff

Telescopic Base Stand

Switched Electrical Devices
controlled by AirSafe TOUCH

Options Include:
Manual Height Adjustment
on 1" Increments
Electrically Operated
Adjustable Height

ASHRAE 110 Tested
SEFA 9 Tested

Manual Height Adjustable Stand
shown with Optional Casters

Base Cabinet Options
Available

Standard 120 VAC — Optional 240 VAC available

AirSafe TOUCH Automatic Safety Controller

The easiest to use, yet most advanced, fume hood controller available

AirSafe TOUCH, a color LCD touch-screen controller, incorporates two main control screens featuring 18 different “Quick Keys” for one-touch access to all primary control and monitoring functions. The main screen also displays the current Interfilter gas detection level and airflow face velocity in real-time. Blower, burning gas, and electrical outlet status are constantly displayed in the top status bar along with the logged-in user.

Thousands of times per second, AirSafe TOUCH simultaneously monitors and controls over 900 data points linked to the system’s mechanical controls, sensor package, and alarms.



FilterStat Validation Systems

Real-time application validation at your fingertips

With any filtered fume hood, filtered air is recirculated into the laboratory, making it imperative that only filtration-approved chemicals are manipulated inside the hood. DetectAir filtered fume hoods feature FilterStat, the first integrated platform for storing, analyzing, approving, and monitoring chemicals for use with a particular filter or combination of filters. To achieve this real-time analysis, FilterStat utilizes an onboard chemical reference library of over 1,000 chemicals approved for use within DetectAir.

TriAnalyze 3x3 Multi-Method Gas Detection

The new standard for filtered fume hood filtration monitoring

In conjunction with the onboard chemical library and chosen chemical application, the TriAnalyze 3x3 gas detection system utilizes three advanced chemical sensors linked to three gas sample locations to provide a complete, real-time application exposure assessment. The Photo Ionization Detector (PID) gas analyzer component of TriAnalyze 3x3 provides the first “absolute zero” reference measurement method and real-time PPM display found in a filtered fume hood. Gas detection alarm values are auto-set based on Threshold Limit Value (TLV) information embedded in the chemical library.

Silconazyne Bonded Filtration

Higher adsorption capacity for a wider range of chemicals

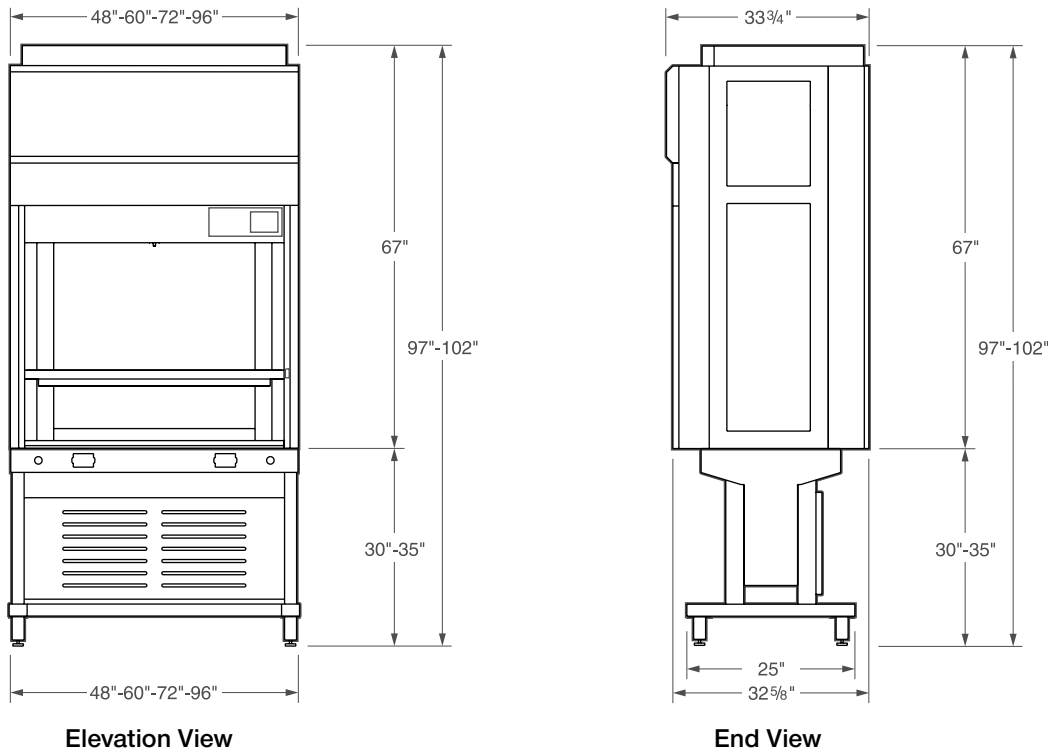
At the heart of the DetectAir filtered fume hood is Silconazyne, a revolutionary new bonded gas phase filtration system. Silconazyne is a chemically and thermally enhanced filtration technology improving upon centuries-old carbon filtration by increasing the adsorption capability on a wider spectrum of commonly manipulated laboratory chemicals. Silconazyne filters can be used with 99% of all chemicals found in the FilterStat integral chemical reference library.



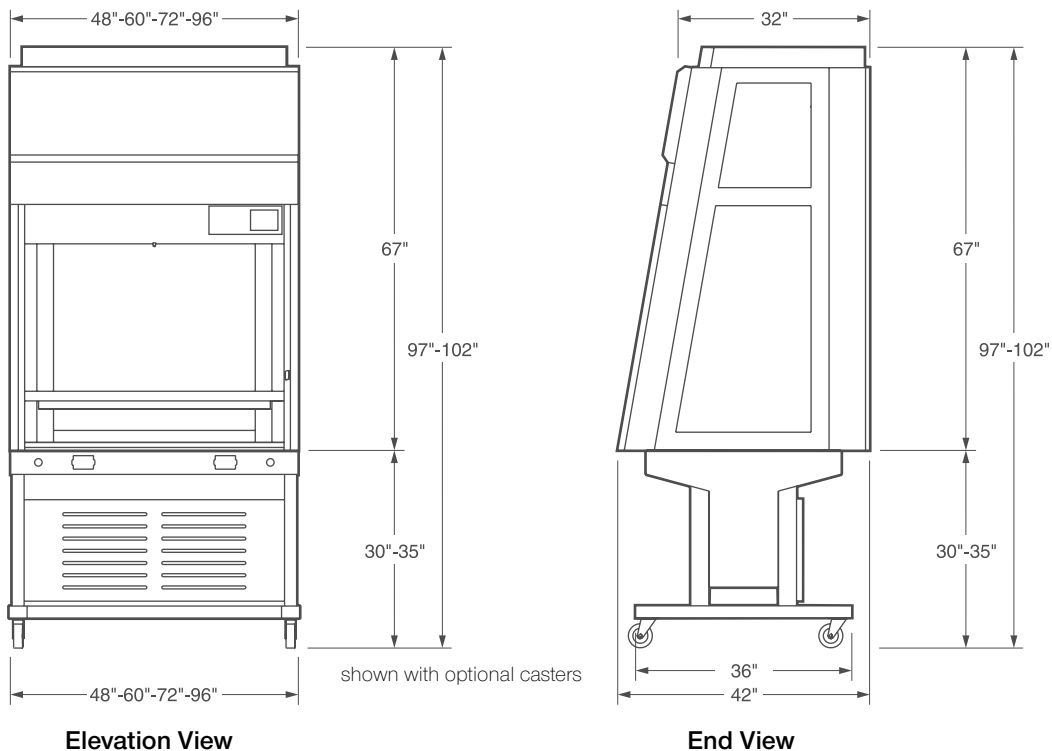
DetectAir

TECHNICAL INFORMATION

DetectAir Filtered Fume Hood – Shallow profile with vertical face



DetectAir Filtered Fume Hood – Deep profile with sloping face



DetectAir Filtered Fume Hood — Shallow profile with vertical face

Product Number includes Kemresin Worksurface	Superstructure – Exterior Dimensions				Superstructure – Interior Dimensions		
	height	depth	width	sash opening height	height	depth	width
DET05T673448-0A	67"	33 ³ / ₄ "	48"	24 ⁵ / ₈ "	40 1/ ₈ "	23 1/ ₂ "	44"
DET05T673460-0A	67"	33 ³ / ₄ "	60"	24 ⁵ / ₈ "	40 1/ ₈ "	23 1/ ₂ "	56"
DET05T673472-0A	67"	33 ³ / ₄ "	72"	24 ⁵ / ₈ "	40 1/ ₈ "	23 1/ ₂ "	68"
DET05T673496-0A	67"	33 ³ / ₄ "	96"	24 ⁵ / ₈ "	40 1/ ₈ "	23 1/ ₂ "	92"

DetectAir and Worksurface available in all standard Kewaunee colors

DetectAir Filtered Fume Hood — Deep profile with sloping face

Product Number includes Kemresin Worksurface	Superstructure – Exterior Dimensions				Superstructure – Interior Dimensions		
	height	depth	width	sash opening height	height	depth	width
DET90T674248-0A	67"	42"	48"	25 1/ ₄ "	40 1/ ₈ "	32 ⁵ / ₈ "	44"
DET90T674260-0A	67"	42"	60"	25 1/ ₄ "	40 1/ ₈ "	32 ⁵ / ₈ "	56"
DET90T674272-0A	67"	42"	72"	25 1/ ₄ "	40 1/ ₈ "	32 ⁵ / ₈ "	68"
DET90T674296-0A	67"	42"	96"	25 1/ ₄ "	40 1/ ₈ "	32 ⁵ / ₈ "	92"

DetectAir and Worksurface available in all standard Kewaunee colors

Adjustable Height Base Stand

Manual Height Adjustment				Electrical Height Adjustment			
Product Number	height	depth	width	Product Number	height	depth	width
050400-3448	30" - 35"	25"	48"	050400-3448-E	30" - 35"	25"	48"
050400-3460	30" - 35"	25"	60"	050400-3460-E	30" - 35"	25"	60"
050400-3472	30" - 35"	25"	72"	050400-3472-E	30" - 35"	25"	72"
050400-3496	30" - 35"	25"	96"	050400-3496-E	30" - 35"	25"	96"
050400-4248	30" - 35"	36"	48"	050400-4248-E	30" - 35"	36"	48"
050400-4260	30" - 35"	36"	60"	050400-4260-E	30" - 35"	36"	60"
050400-4272	30" - 35"	36"	72"	050400-4272-E	30" - 35"	36"	72"
050400-4296	30" - 35"	36"	96"	050400-4296-E	30" - 35"	36"	96"
Caster Option	add -B to end of product number to add casters to base stand Example: 050400-4248- B						

Adjustable Height Base Stand available in all standard Kewaunee colors

Options	Product Description
W-0744-A	Air service valve and hose bib (ships loose)
W-0744-G	Gas service valve and hose bib (ships loose)
W-0744-V	Vacuum service valve and hose bib (ships loose)
W-0744-W	Water service valve and hose bib (ships loose)
0491-BP	Black Polyethylene Oval Cupsink (ships loose)
0656-1V	120 VAC, GFI, specification grade, 20 amp receptacle with face plate (ships loose)

For filter information go to www.kewaunee.com or contact your Kewaunee Sales Representative

Kewaunee Scientific Corporation is dedicated to manufacturing high quality products for the laboratory marketplace.

We offer **Total Laboratory Solutions, Innovative Designs, and Technological Expertise** with a worldwide distribution network to provide laboratories that are truly World Class.

Laboratory Products from Kewaunee:

ALPHA – Adaptable Casework System

ALPHA Columns – Expandable Workstations

ALPHA – Overhead Carrier Systems

DetectAir – Filtered Fume Hoods

EarthLine – Environmentally Friendly Casework

Enterprise – Moveable Workstations

Interceptor – Biological Safety Cabinet

Interceptor – Laminar Flow Cabinet

Kemresin – Epoxy Resin Counters & Sinks

Kewaunee Matrix – Educational Stations

Research Collection – Steel Casework

Signature Series – Wood Casework

Supreme Air – Fume Hoods

For our complete product offering, specifications, catalogs, brochures, case studies, and dealer list, go to www.kewaunee.com, or contact your local sales representative directly.



The mark of responsible forestry



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