

**CLEAN BENCH
PRODUCTS**

EdgeGARD
Laminar-Flow Clean Bench



Welcome to a
comfortable
clean bench.



THE BAKER COMPANY



Meets NSF
Standards



Underwriter
Laboratories Listed



UniPressure™
Prewlow Plenum

EdgeGARD® Laminar-Flow Clean Bench



Where comfort meets industry-leading dependability

- High-velocity return air slots maximize product protection and ensure ISO Class 5 (Class 100) cleanliness
- Non-glare, all stainless steel work surfaces and side walls
- A high-performance airflow system provides laminar airflow across the work surface
- HEPA supply filter with 99.99% minimum efficiency in capturing 0.3 micrometer particulates
- Each EdgeGARD cabinet receives 13 separate performance tests prior to shipment
- Industry's most reliable clean bench means lower life-cycle costs and years of trouble-free operation

EdgeGARD®

Exceeds ISO 14644 Class 5 (Class 100) requirements

The Baker Company's EdgeGARD horizontal laminar-flow clean bench ensures product protection for a range of laboratory applications. With a spacious work area and brightly illuminated for maximum productivity and unique high-velocity air return slots, the EdgeGARD offers superior user comfort and product protection. Equipped with a HEPA supply air filter, airflow across the work area provides a particulate-free work surface. The patented cabinet design of the EdgeGARD provides precise control of airflow volumes and velocities, thereby maximizing product protection and ensuring ISO Class 5 (Class 100) cleanliness in the work area. The EdgeGARD is ideal for a variety of life science and industrial laboratory and process applications where product protection is essential.

Applications

- IV admixture preparation
- Drug compounding
- Plant cell culture
- Media preparation
- Pharmaceutical procedures
- Electronic assembly
- Limited experimental research

Please note: the EdgeGARD protects product only; it is not designed to contain aerosols generated in the work area, and does not protect personnel or the environment.

Available in Console and Space-Saver Bench Model.



EdgeGARD® EGB-IV22,
Space-Saver Bench Model

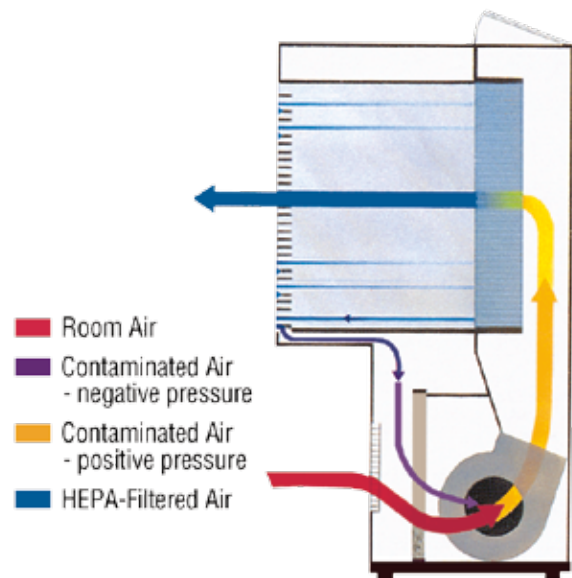
High-Velocity Return Air Slots Capture Backwash Air

Cleanliness and product protection are accomplished with precise control of airflow volumes and velocities. A unique feature in the Baker cabinet design, the high-velocity return air slots have been proven to maximize clean bench protective capabilities.

- High-velocity return air slots are located along the front edge and side walls of the work area.
- Air is drawn into these slots at high velocity, ensuring that no unfiltered air enters the work area.
- Location of the return air slots protects from backwash of dirty air into the work area created when instruments, labware or the user's hands and arms are placed within the air stream on the work surface.
- Recovered air is HEPA-filtered before being passed through the work area.
- Because recirculated air reduces the percentage of dirty air passed through the filter, overall filter life is extended.

Airflow Characteristics

- The Baker EdgeGARD employs a laminar airflow across the work surface.
- Clean air is drawn through a pre-filter into the base of the console by a blower/motor.
- The pre-filter traps dust and larger particles.
- The air is then pushed up the back wall plenum and through a HEPA filter at an average velocity of 100 FPM.
- HEPA-filtered air is directed horizontally across the work surface toward the opening.



HEPA Supply Filter with Pre-Filter

Because filters remove microorganisms and airborne particulates (generally called aerosols) from the air, the quality, performance and useful life of HEPA filters are critical considerations in the clean bench environment.

- Each Baker clean bench filter is scan tested for leaks and tested for overall efficiency by the manufacturer, then individually scan tested by Baker after installation to verify leak-free performance with increased trapping efficiency.
- Minimum filter efficiency is 99.99% for particulates 0.3 micrometers, increased efficiency for particulates greater and smaller than 0.3 micrometers.
- A removable protective screen is located in front of the HEPA filter. The screen protects the filter and is easily removed for cleaning or service.
- The rigid aluminum filter frame is concealed to permit only the filter media to be exposed to the work area, eliminating turbulence created by the frame effect on the rear wall.
- Room supply air is passed through a washable, reusable Scott Foam pre-filter, which keeps the HEPA filter free of dust and larger particles, and extends HEPA filter life.

Blower/Motor System Helps Extend Filter Life

Baker has selected an optimum blower/motor combination to ensure performance and to extend filter life. The Baker blower/motor provides a volume of air despite increases in resistance due to filter loading, resulting in extremely long filter life as verified by simulated filter loading tests.

Extended filter life minimizes filter replacement costs. The more filter resistance the blower/motor system can overcome, the longer between filter changes.

- As particulates fill the filter media, resistance to airflow increases.
- The Baker blower/motor is a direct drive permanent split capacitor motor designed to deliver the maximum amount of filter life for each cabinet.
- The filter need not be changed until the blower/motor system cannot deliver adequate air volume to maintain the average velocity of 100 FPM.

StediVOLT® Motor Speed Controller Maintains Performance

The Baker Company's exclusive StediVOLT motor speed controller reduces the risk of performance degradation and possible product loss due to typical line voltage fluctuations.

- StediVOLT minimizes changes in cabinet performance due to routine voltage fluctuations.
- StediVOLT reads incoming voltage, automatically compensates for low and high voltage, and maintains proper blower speed to prevent periods of unbalanced airflow which may contribute to loss of cleanliness or product protection.

Spacious Work Area with Comfortable Lighting

- The 22" work area depth provides ample space for safe, efficient operation; heights vary from 28¹/₈" to 34¹/₈", depending on model.
- Each EdgeGARD clean bench includes fluorescent lamps which provide balanced lighting at the work surface.
- The cool white illumination exhibits better color fidelity.
- Adjustable leg risers (optional) permit work surface heights of 35¹/₁₆" to 37⁷/₁₆".

An Electrical System Designed for Safety and Convenience

- An exterior GFCI duplex outlet is provided to accommodate most commonly used instruments and equipment.
- The outlet is provided with a 5-amp self-resetting circuit breaker.
- The outlets are on a separate circuit from the cabinet lights and blower/motor so that an overload caused by equipment will not affect cabinet function.
- For safety reasons, the EdgeGARD utilizes a single power cord and plug (or junction box) arrangement. This ensures that a second power source is not left on if maintenance functions are necessary.
- EdgeGARD is cULus Listed for electrical, fire and mechanical safety and integrity.



The EdgeGARD Model EGBIV22 Space Saver is a two-foot clean bench for applications where space is at a premium. Only 28" wide overall, it is typically used for IV and nursing stations, satellite pharmacies, intensive care units and other small volume clinical or industrial situations.

Cabinet Construction Enhances Performance, Minimizes Downtime

Baker cabinet designs represent decades of experience in stainless steel fabrication and craftsmanship.

- EdgeGARD cabinets include a corrosion-resistant, Type 304 stainless steel work surface and work area side walls.
- A hinged panel located directly below the high-velocity return air slots on the leading edge of the work surface provides easy access for cleaning.
- A 1/2" lip at the rear of the stainless steel work surface prevents spills from entering the HEPA filter.
- The satin finish work surface diminishes harsh light reflection.
- The 18-gauge cold-rolled steel exterior cabinet is protected with a white powder coated finish.

Options and Accessories

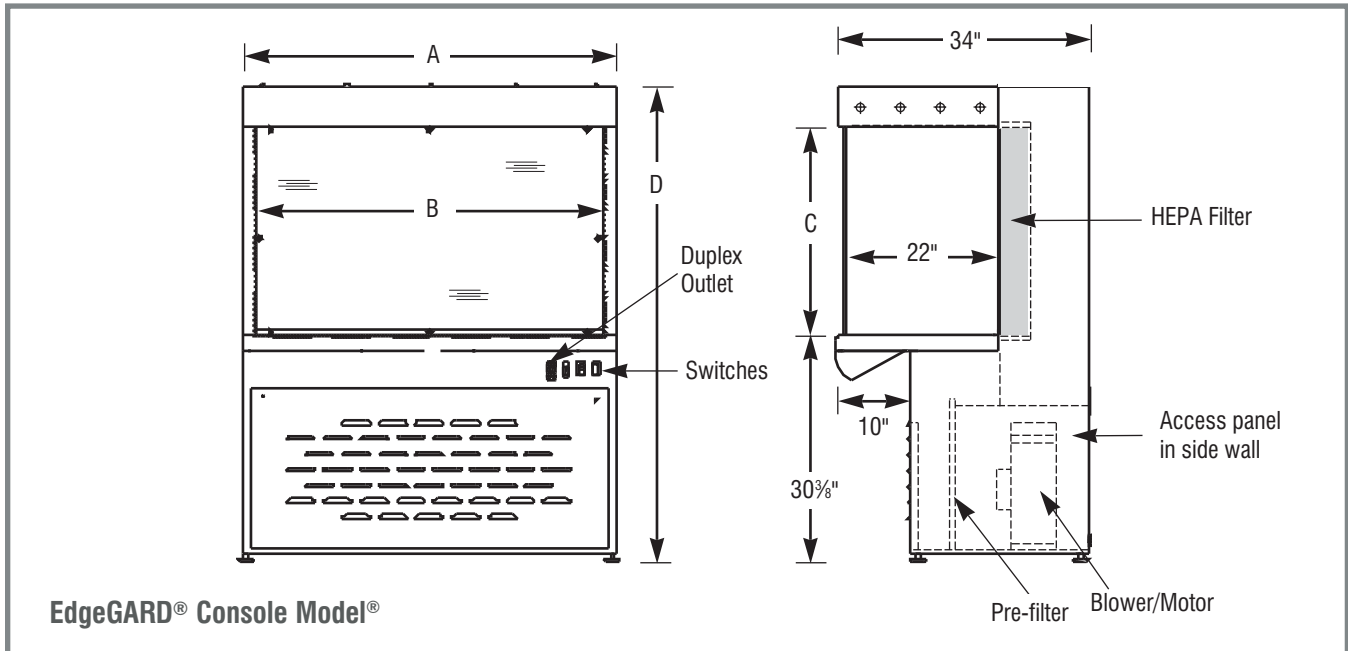
Most options, accessories and modifications are factory installed and should be specified when ordering. Common options are listed below. For detailed information on accessories and modifications, contact The Baker Company.

- Adjustable leg risers (for work surface height of 35¹¹/₁₆" to 37⁷/₁₆")
- Service petcocks (in right or left side wall)
- Stainless steel IV bar (removable)
- Plastic storage bins (below work surface)
- Casters
- Additional duplex outlet
- Isolated/Microbalanced blower/motor (for lowest vibration)*
- Mag Gauge
- Germicidal UV light with reflective shade*
- Seismic restraints*

*Not UL Listed with this option.

Ordering

For ordering information, terms and conditions of sale, contact The Baker Company or visit the Baker website at www.bakerco.com for the name of your authorized Baker Company representative.



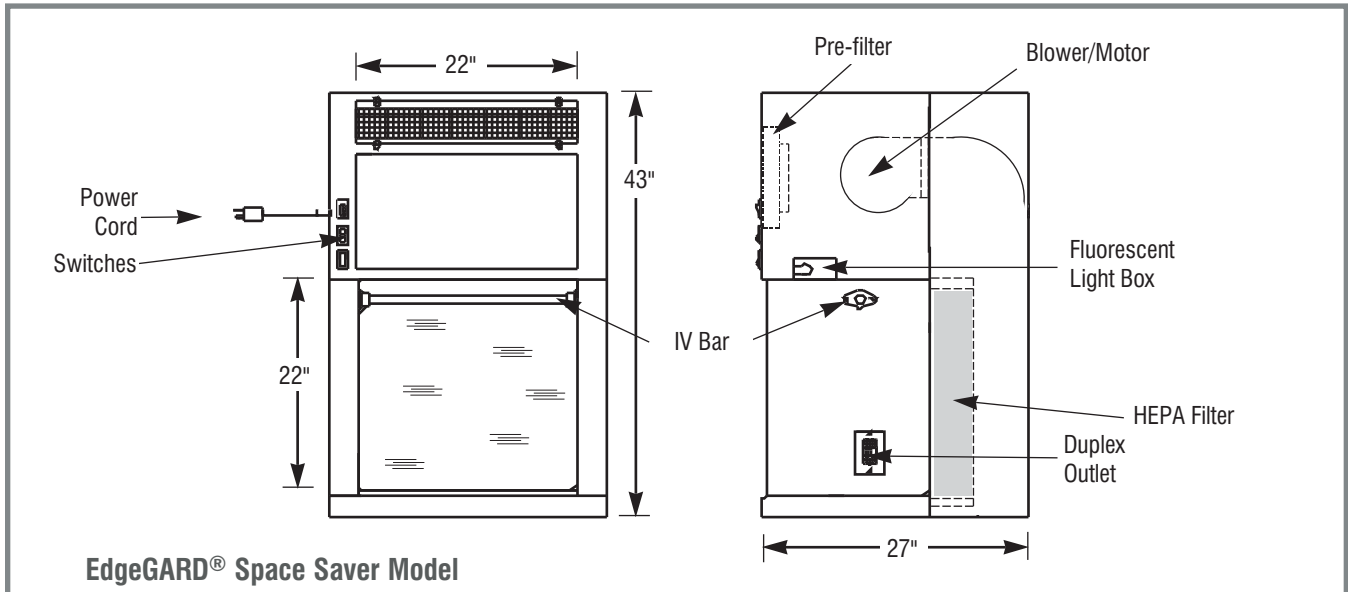
EdgeGARD® Console Model®

Console Models

MODEL NUMBER	EG3252	EG4252	EG4320	EG5252
Electrical	115V, AC	115V, AC	115V, AC	115V, AC
Amps	12	16	16	16
Required Breaker	15 amps	20 amps	20 amps	20 amps
Exterior Width	38"	50"	50"	62"
Interior Width	34 1/2"	46 1/2"	46 1/2"	58 1/2"
Interior Height	28 1/8"	28 1/8"	34 1/8"	28 1/8"
Exterior Height	64" to 66"	64" to 66"	70" to 72"	64" to 66"
Net Weight / Ship Weight	360 / 485 lbs	440 / 590 lbs	460 / 610 lbs	520 / 695 lbs
Filter Size	36"x30"x6"	48"x30"x6"	48"x36"x6"	60"x30"x6"

MODEL NUMBER	EG6252	EG6320	EG8252
Electrical	115V, AC	115V, AC	115V, AC
Amps (with/without outlet)	24/16	24/16	24 or 2x16
Required Breaker	jct box	jct box	jct box
Exterior Width	74"	74"	98 1/2"
Interior Width	70 1/2"	70 1/2"	95"
Interior Height	28 1/8"	34 1/8"	28 1/8"
Exterior Height	64"	70"	64"
Net Weight / Ship Weight	680 / 880 lbs	720 / 920 lbs	800 / 1050 lbs
Filter Size	72"x30"x6"	72"x36"x6"	48"x30"x6" (2)

Note: Models EG4252, EG4320 and EG5252 include 11-foot line cord with 3-prong plug (7-foot cord on Model EG3252).
 Models EG6252, EG6320 and EG8252 require a hard wire connection to junction box located in the lower inside right hand corner of the cabinet.
 *Exterior heights are listed as minimum dimensions, for maximum height add 2 inches.



Space-Saver Model

MODEL NUMBER	EGBIV22
Electrical	115V, AC
Amps	11.2
Required Breaker	15 amps
Net Weight / Ship Weight	200 / 325 lbs
Filter Size	24"x24"x6"

Note: This model includes a 9-foot line cord with 3-prong plug.

Filtration system

- Supply filter, zero-probed HEPA filter, 99.99% efficient on all particles 0.3 micron by DOP test
- Pre-filter, washable Scott Foam
- Dust count, leak test and particle count by single particle monitor or cold DOP photometer which conforms to requirements of FS290b and U.S.A.F. T.O. 00-25-203

Illumination

- Console models, 200 foot-candles at work surface
- Space-Saver model, 75 foot-candles at work surface

EdgeGARD® Horizontal Laminar-Flow Clean Bench

1. High-velocity return air slots to be located at the leading edges of work surface and side walls. Return air slots protect against backwash of dirty air entering the work area when items are placed within the air stream on the work surface.
2. Unit shall be all steel construction, 18-gauge, cold-rolled steel, with a white powder coated finish, stainless steel work surface and stainless steel inner work area side walls.
3. Unit shall be provided with permanent split capacitor type motor and special blower which automatically compensates for increasing pressure drop across filter in excess of that which is required by existing standards.
4. Complete unit shall be listed as certified by Underwriters Laboratory (UL) for cULus electrical, fire and mechanical safety.
5. All joints and seams offering a possible path of contaminated air from outside to the inside of the work area shall be sealed.
6. Framing for the filter seal shall be of rigid aluminum construction and only the filter media shall be exposed to the work area opening, to eliminate picture frame effect.
7. Unit shall have washable, reusable Scott Foam pre-filters.
8. Each unit, before shipping, shall have a complete test to assure clean bench meets all requirements of ISO 14644. A copy of this test will be provided with the unit.
9. The unit manufacturer must be able to provide evidence that this unit has been tested by an independent laboratory or research organization.
10. Speed controller shall automatically compensate for voltage change to maintain constant voltage to motor while allowing for manual adjustments during filter loading.
11. Unit work surface shall feature 5/8" Spill Guard at rear to prevent accidental spillage into HEPA filter area.
12. The unit shall have standard HEPA filters for a protection effectiveness of 99.99% when filtering particles of 0.3 micron size.
13. A removable HEPA filter protective screen shall be provided.
14. Shall be provided with externally mounted GFCI-protected duplex outlet with circuit breaker.

Caution

A clean bench is not designed to protect personnel or the environment from potentially harmful agents. The adequacy of this product for the user's personal safety, as with any clean bench, should be determined by an industrial hygienist or safety officer. Site preparation information, architectural drawings, detailed dimensions and purchase specifications are available.

Warranty

The Baker Company, Inc., expressly represents and warrants all goods (a) to be as specified (and described) in The Baker Company catalogs and literature, and (b) to be free under normal use, service and testing (all as described in The Baker Company catalogs and literature) from defects in material and workmanship for a period of thirty-six months from the invoice date.

The exclusive remedy for any breach or violation of this warranty is as follows: The Baker Company, Inc., will F.O.B. Sanford, Maine, furnish without charge repairs to or replacement of the parts or equipment that proved defective in material or workmanship. No claim may be made for any incidental or consequential damages.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE UNLESS OTHERWISE AGREED IN WRITING SIGNED BY THE BAKER COMPANY. (THE BAKER COMPANY SHALL NOT BE RESPONSIBLE FOR ANY IMPROPER USE, INSTALLATION, SERVICE OR TESTING OF THE GOODS.)

THE BAKER COMPANY

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