



## PRODUCT SPECIFICATION

# EdgeGARD® e3 HF

Horizontal Laminar Flow Clean Bench



### MODELS:

EG301 / EG401 / EG501  
EG601 / EG801

EG401XD / EG501XD /  
EG601XD / EG801XD



| SPECIFICATIONS                                       |                                  |                      |                                  |                                   |                                  |
|--|----------------------------------|----------------------|----------------------------------|-----------------------------------|----------------------------------|
| <b>Exterior Dimensions</b>                           | <b>EG301</b>                     |                      | <b>EG401</b>                     |                                   | <b>EG401XD</b>                   |
| Foot Print (w x f-b)                                 | 41 x 30 1/2"<br>[1041 x 775 mm]  |                      | 53 x 30 1/2"<br>[1346 x 775 mm]  |                                   | 53 x 40 1/2"<br>[1346 x 1029 mm] |
| Min Height (with telescoping legs and leveling feet) | 70" [1778 mm]                    |                      |                                  |                                   |                                  |
| Max Height (with telescoping legs and leveling feet) | 81 1/2" [2070 mm]                |                      |                                  |                                   |                                  |
|  | <b>EG501</b>                     |                      |                                  | <b>EG501XD</b>                    |                                  |
| Foot Print (w x f-b)                                 | 65 x 30 1/2"<br>[1651 x 775 mm]  |                      |                                  | 65 x 40 1/2"<br>[1651 x 1029 mm]  |                                  |
| Min Height (with telescoping legs and leveling feet) | 70" [1778 mm]                    |                      |                                  |                                   |                                  |
| Max Height (with telescoping legs and leveling feet) | 81 1/2" [2070 mm]                |                      |                                  |                                   |                                  |
|  | <b>EG601</b>                     |                      |                                  | <b>EG601XD</b>                    |                                  |
| Foot Print (w x f-b)                                 | 77 x 30 1/2"<br>[1956 x 775 mm]  |                      |                                  | 77 x 40 1/2"<br>[1956 x 1029 mm]  |                                  |
| Min Height (with telescoping legs and leveling feet) | 70" [1778 mm]                    |                      |                                  |                                   |                                  |
| Max Height (with telescoping legs and leveling feet) | 81 1/2" [2070 mm]                |                      |                                  |                                   |                                  |
|  | <b>EG801</b>                     |                      |                                  | <b>EG801XD</b>                    |                                  |
| Foot Print (w x f-b)                                 | 100 x 30 1/2"<br>[2540 x 775 mm] |                      |                                  | 100 x 40 1/2"<br>[2540 x 1029 mm] |                                  |
| Min Height (with telescoping legs and leveling feet) | 70" [1778 mm]                    |                      |                                  |                                   |                                  |
| Max Height (with telescoping legs and leveling feet) | 81 1/2" [2070 mm]                |                      |                                  |                                   |                                  |
| <b>Weights (empty work space)</b>                    | <b>EG301</b>                     | <b>EG401</b>         | <b>EG401XD</b>                   | <b>EG501</b>                      | <b>EG501XD</b>                   |
| Unit Weight with telescoping legs                    | 425 Lbs.<br>[193 kg]             | 460 Lbs.<br>[209 kg] | 555 Lbs.<br>[252 kg]             | 509 Lbs.<br>[231 kg]              | 625 Lbs.<br>[283 kg]             |
| Unit Weight with Hydraulic Lift System               | 481 Lbs.<br>[218 kg]             | 521 Lbs.<br>[236 kg] | NA                               | 575 Lbs.<br>[261 kg]              | NA                               |
|  | <b>EG601</b>                     | <b>EG601XD</b>       | <b>EG801</b>                     | <b>EG801XD</b>                    |                                  |
| Unit Weight with telescoping legs                    | 665 Lbs.<br>[302 kg]             | 750 Lbs.<br>[340 kg] | 835 Lbs.<br>[379 kg]             | 1000 Lbs.<br>[454 kg]             |                                  |
| Unit Weight with Hydraulic Lift System               | 736 Lbs.<br>[333 kg]             | NA                   | NA                               | NA                                |                                  |
| <b>Interior Dimensions</b>                           | <b>EG301</b>                     |                      | <b>EG401</b>                     |                                   | <b>EG401XD</b>                   |
| Interior Foot Print (w x f-b)                        | 35 x 20 5/16"<br>[889 x 516 mm]  |                      | 47 x 20 5/16"<br>[1194 x 516 mm] |                                   | 47 x 30 5/16"<br>[1194 x 770 mm] |
| Interior Height (h)                                  | 34" [864 mm]                     |                      |                                  |                                   |                                  |
|  | <b>EG501</b>                     |                      |                                  | <b>EG501XD</b>                    |                                  |



|   |  |                            |   |                            |                            |
|---|--|----------------------------|---|----------------------------|----------------------------|
| Interior Foot Print (w x f-b)                                   | 59 x 20 <sup>5</sup> / <sub>16</sub> "<br>[1499 x 516 mm]  |                            | 59 x 30 <sup>5</sup> / <sub>16</sub> "<br>[1499 x 770 mm] |                            |                            |
| Interior Height (h)   | 34" [864 mm]   |                            |   |                            |                            |
|   | <b>EG601</b>   |                            | <b>EG601XD</b>  |                            |                            |
| Interior Foot Print (w x f-b)                                   | 71 x 20 <sup>5</sup> / <sub>16</sub> "<br>[1803 x 516 mm]  |                            | 71 x 30 <sup>5</sup> / <sub>16</sub> "<br>[1803 x 770 mm] |                            |                            |
| Interior Height (h)   | 34" [864 mm]   |                            |   |                            |                            |
|   | <b>EG801</b>   |                            | <b>EG801XD</b>  |                            |                            |
| Interior Foot Print (w x f-b)                                   | 95 x 20 <sup>5</sup> / <sub>16</sub> "<br>[2413 x 516 mm]  |                            | 95 x 30 <sup>5</sup> / <sub>16</sub> "<br>[2413 x 770 mm] |                            |                            |
| Interior Height (h)   | 34" [864 mm]   |                            |   |                            |                            |
| <b>Performance (Per IEST-RP- CC002.3)</b>                       | <b>EG301</b>   | <b>EG401 /<br/>EG401XD</b> | <b>EG501 /<br/>EG501XD</b>                                | <b>EG601 /<br/>EG601XD</b> | <b>EG801 /<br/>EG801XD</b> |
| Supply Volume (Calculated volume based on 90 FPM face velocity) | 744 CFM<br>[351 L/Sec]   | 999 CFM<br>[471 L/Sec]     | 1254 CFM<br>[592 L/Sec]                                   | 1509 CFM<br>[712 L/Sec]    | 2019 CFM<br>[953 L/Sec]    |
| Typical Noise   | ≤ 67 dBA   |                            |   |                            |                            |
| Lighting  | Minimum 100 foot-candles average at work surface   |                            |   |                            |                            |
| Vibration   | ≤.0002 inches (5 micrometer) RMS Amplitude   |                            |   |                            |                            |
| Typical Motor/Blower Reserve                                    | >50% with no more than 10% decrease in total flow  |                            |   |                            |                            |
| <b>Electrical Service</b>                                       |  |                            |   |                            |                            |
| <b>Cabinet Service Requirements</b>                             |  |                            |   |                            |                            |
| 100 V   | 100 V AC, 20A, 50/60 Hz, 1Ø, 16A maximum useable current   |                            |   |                            |                            |
| 115 V   | 115 V AC, 20A, 60 Hz, 1Ø, 16A maximum useable current  |                            |   |                            |                            |
| 230 V   | 230 V AC, 16A, 50/60 Hz, 1Ø, 13A maximum useable current   |                            |   |                            |                            |
| <b>Circuit Protection</b>                                       |  |                            |   |                            |                            |
| 100/115V  | Internally protected with a 250V, 20 A circuit breaker   |                            |   |                            |                            |
| 230V  | Internally protected with a 250V, 16 A circuit breaker   |                            |   |                            |                            |
| <b>Power Cord</b>   |  |                            |   |                            |                            |
| 100 V / 115V  | One 20'[6 M] power cord with 20 A type NEMA 5-20P.   |                            |   |                            |                            |
| 230 V   | One 20'[6 M] power cord with listed plug for the destination country   |                            |   |                            |                            |
| <b>Outlets at Front of Clean Bench</b>                          |  |                            |   |                            |                            |
| 100 V   | Two 115 V AC, duplex outlets. The outlets on this circuit are protected by a self-resetting circuit breaker allowing for a total of 5A on all outlets.                 |                            |   |                            |                            |
| 115 V   | Two GFCI protected, 115 V AC, duplex outlets. The outlets on this circuit are protected by a self-resetting circuit breaker allowing for a total of 5A on all outlets. |                            |   |                            |                            |
| 230 V   | Two 230 V AC, outlets. The outlets on this circuit are protected by self-resetting circuit breakers allowing for a total of 5A on all outlets                          |                            |   |                            |                            |
|   |  |                            |   |                            |                            |



| Normal Operating Power Consumption <sup>1</sup> | Cabinet ON<br>(Lights On/ Does not included Outlets)   |                     |                     |                     |                      |
|---|--|---------------------|---------------------|---------------------|----------------------|
|   | EG301  | EG401 /<br>EG401XD  | EG501 /<br>EG501XD  | EG601 /<br>EG601XD  | EG801 /<br>EG801XD   |
| 100V 50/60Hz                                    | 3.3A<br>1125 BTU/HR  | 4.3A<br>1466 BTU/HR | 7.4A<br>2523 BTU/HR | 6.5A<br>2217 BTU/HR | 11A<br>3751 BTU/HR   |
| 115V 60Hz                                       | 2.7A<br>1059 BTU/HR  | 3.9A<br>1529 BTU/HR | 6.8A<br>2667 BTU/HR | 5.6A<br>2196 BTU/HR | 10.3A<br>4039 BTU/HR |
| 230V 50/60Hz                                    | 1.6A<br>1255 BTU/HR  | 2A<br>1569 BTU/HR   | 2.3A<br>1804 BTU/HR | 3.2A<br>2510 BTU/HR | 5.5A<br>4314 BTU/HR  |
| <b>Environmental Conditions</b>                 |  |                     |                     |                     |                      |
| Use   | Indoor   |                     |                     |                     |                      |
| Altitude  | Up to 6,561' [2,000 meters]  |                     |                     |                     |                      |
| Temperature Range                               | From 41°F [5°C] to 104°F [40°C]  |                     |                     |                     |                      |
| Relative Humidity                               | Maximum 80% for temperatures up to 88°F [31°C] decreasing linearly to 50% at 104°F [40°C]  |                     |                     |                     |                      |
| Voltage   | Main supply ± 10% V AC   |                     |                     |                     |                      |
| Transient                                       | Over voltage according to Installation category (OVERVOLTAGE CATEGORIES) II per UL/IEC61010-1, 3 <sup>rd</sup> Edition                         |                     |                     |                     |                      |
| Pollution Degree                                | 2  |                     |                     |                     |                      |
| <b>Materials of Construction</b>                |  |                     |                     |                     |                      |
| Supply Diffuser                                 | 20 ga, .0359" [0.91 mm] 304 Stainless Steel  |                     |                     |                     |                      |
| Work Chamber Left & Right Side Walls            | 16 ga, .0598" [1.5 mm] 304 Stainless Steel   |                     |                     |                     |                      |
| Work Chamber Top                                | 16 ga, .0598" [1.5 mm] Carbon Steel, painted in exterior color   |                     |                     |                     |                      |
| Work Surface                                    | 16 ga, .0598" [1.5 mm] 304 Stainless Steel   |                     |                     |                     |                      |
| Front, Left, & Right Exterior Panels            | 18 ga, .0478" [1.2 mm] Carbon Steel, painted in exterior color   |                     |                     |                     |                      |
| Positive Pressure Supply Plenum                 | 16 ga, .0598" [1.5 mm] Carbon Steel, painted in exterior color   |                     |                     |                     |                      |
| Stand Frame                                     | 14 ga, .0747" [1.9 mm] Carbon Steel, painted in exterior color   |                     |                     |                     |                      |
| HEPA Filters w/ Gel-seal                        | HEPA rated class H14 (99.995%) filter media with aluminum frame and Gel-seal.  |                     |                     |                     |                      |
| <b>Standard Features</b>                        |  |                     |                     |                     |                      |
| Work surface                                    | Removable, One-Piece construction  |                     |                     |                     |                      |
| Lighting  | LED lighting mounted externally to work area   |                     |                     |                     |                      |
| Filter Access                                   | All access and changing from the front of the cabinet  |                     |                     |                     |                      |
| Supply Filter                                   | Minimum HEPA 99.995% efficient at MPPS per EN 1822, Class H14  |                     |                     |                     |                      |
| Membrane Switch Control Pad                     | Controls all cabinet functions   |                     |                     |                     |                      |
| Clean Bench Blower assembly                     | One- piece centrifugal blower/motor assembly   |                     |                     |                     |                      |
| Clean Bench Pressure Monitor                    | Analog differential pressure gauge   |                     |                     |                     |                      |
| Timers  | 15 minute and 1 hour increment programming using touchpad for LED lights, and electrical outlets   |                     |                     |                     |                      |
| Cable Ports                                     | Allows access to the clean bench work area for external power cables, tubing. One 3" [76 mm] Dia. Cable Port on both Left and Right Side Walls |                     |                     |                     |                      |



|   |  |
|---|--|
| Stand with Telescoping Legs   | Provides height adjustment for worker comfort<br>Minimum work surface height: 27 ½" [698 mm]<br>Maximum work surface height: 41 ¾" [1050 mm] |
| Exterior Color  | Sherwin Williams Powdura Polyester-Epoxy powder coating HAS2-30057 Perma White. Gloss 20-30 units  |
| Suction slots – bottom & sides  | Located along bottom, left and right sides of front access opening   |
| Supply Diffuser   | Hinging at the top provided for cleaning access.   |
| <b>Ergonomics</b>   |  |
| Front Access Opening  | Sloped 10° for worker comfort  |
| Cabinet Controls  | Located on front right side wall within easy reach of sitting or standing  |
| <b>Optional Features</b>  |  |
| Casters   | Maximum height to bottom of cabinet drain pan not to exceed 41 ¾" inches [1050 mm]   |
| Side mounted monitor/keyboard arm   | Baker specified model rated for a maximum of 25 lbs [11.4 Kg] single monitor weight and 5 lbs [2.3 Kg] for keyboard weight                   |
| Clean Bench Setpoint Monitor  |  |
| IV bar<br>(Single position or Multiple position)  |  |
| Parts bins  | Each rated for 5 lbs maximum weight  |
| <b>Standards and Codes</b>  |  |
| UL/IEC 61010-1, 3 <sup>rd</sup> Edition   | Mechanical, Electrical and Personal safety testing, US and International   |
| CAN/CSA-C22.2 No. 61010-1, 3 <sup>rd</sup> Edition  | Mechanical, Electrical and Personal safety testing, Canada   |
| CE mark   | Clean bench adheres to the safety and health requirements of the relevant EC directives  |
| Work Area Cleanliness   | Meet or exceed ISO Class 5 ( Class 100)  |
| Directive on Restriction of Hazardous Substances, RoHS Directive, 2011/65/EU with amendment directive 2015/863; EN50581 |  |
| IEST-RP-CC002.3: Unidirectional Flow Clean-Air Devices  |  |

<sup>1</sup> For new Clean Bench with clean filters and work area lighting turned on.

| Revision | Date       | Description  |
|----------|------------|--|
| A        | 8/9/2022   | Initial Release  |
| B        | 11/9/2022  | Updated picture to match Baker branding                                  |
| C        | 12/13/2022 | Removed "IEC C20 Power Inlet" and delete EG801/801XD 30A plug. 20A works |