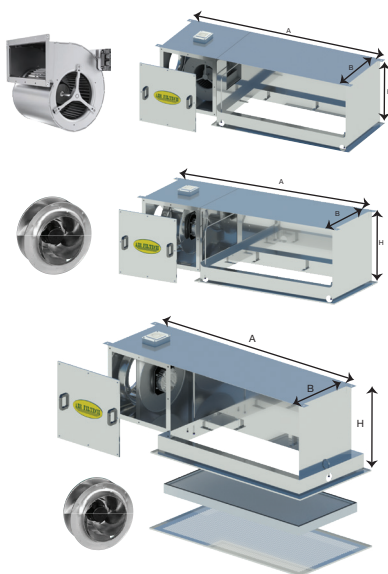


BFU-Blower Filter Unit



APPLICATIONS: This is an integrated device combining a high-performance fan with HEPA/ULPA filtration, designed to deliver ultra-clean air in high-standard environments. It draws in ambient air, effectively removes airborne particles, microorganisms, and other contaminants, and then supplies purified air back to the designated area. BFU is ideal for industries such as pharmaceuticals, electronics manufacturing, food processing, and healthcare, where strict air quality control is essential.

STRUCTURAL PROPERTIES

- **EBM-PAPST centrifugal fans and motors (Germany):** High efficiency, green technology, ModBus/BMS connection, minimum 40,000-hour lifespan, thermal overload protection, compliant with vibration, balancing, and shock standards.
- **MGT HEPA/ULPA filters (Turkey):** 100% MPPS test report acc. EN1822, low initial pressure drop, anodized aluminum frame, polyurethane gasket, glass fiber or PTFE media.
- **Controller:** Fan speed control via TRIAC/DIAC, EC fan control via RS485 (local or remote), supports large fan groups, wall-mount HMI touch panel for remote HEPA filter and fan group monitoring.

Model	HEPA/ULPA Filter Size (WxHxD) mm	Overall Size of BFU (AxBxH) mm	Filter Housing Size (A1xB1xH1) mm	Fan Housing Size (A2xB2xH2) mm	Fan size (mm)
AF-BFU-Forward-curved					
BFU-2x2*-EC-E	610x610x69/90/110	1080x680x470	680x680x470	400x680x400	160
BFU-2.5x2*-EC-E	762x610x69/90/110	1232x680x470	832x680x470	400x680x400	160
BFU-3x2*-EC-E	915x610x69/90/110	1384x680x470	984x680x470	400x680x400	160
BFU-4x2*-EC-E	1220x610x69/90/110	1689x680x470	1289x680x470	400x680x400	160
BFU-4x4*-EC-E	1220x1220x69/90/110	1739x1289x570	1289x1289x570	450x1289x500	180
BFU-2x2*-AC-E	610x610x69/90/110	1130x680x570	680x680x570	450x680x500	180
BFU-2.5x2*-AC-E	762x610x69/90/110	1282x680x570	832x680x570	450x680x500	180
BFU-3x2*-AC-E	915x610x69/90/110	1434x680x570	984x680x570	450x680x500	180
BFU-4x2*-AC-E	1220x610x69/90/110	1769x680x600	1289x680x600	480x680x530	200
BFU-4x4*-AC-E	1220x1220x69/90/110	1769x1289x600	1289x1289x600	480x1289x530	225
BFU-2x2*-EC-F	610x610x69/90/110	1080x680x470	680x680x470	400x680x400	146
BFU-2.5x2*-EC-F	762x610x69/90/110	1332x680x620	832x680x620	500x680x550	230
BFU-3x2*-EC-F	915x610x69/90/110	1484x680x620	984x680x620	500x680x550	230
BFU-4x2*-EC-F	1220x610x69/90/110	1789x680x620	1289x680x620	500x680x550	230
BFU-4x4*-EC-F	1220x1220x69/90/110	1839x1289x670	1289x1289x670	550x1289x600	255
AF-BFU-Backward-curved					
BFU-2.5x2*-EC-E	762x610x69/90/110	832x1060x710	832x680x710	380x832x560	400
BFU-3x2*-EC-E	915x610x69/90/110	984x1060x710	984x680x710	380x832x560	400
BFU-3x2.5*-EC-E	915x762x69/90/110	1364x832x710	984x832x710	380x832x560	400
BFU-4x2*-EC-E	1220x610x69/90/110	1289x1060x710	1289x680x710	380x832x560	400
BFU-4x4*-EC-E	1220x1220x69/90/110	1289x1669x710	1289x1289x710	380x832x560	400
BFU-2x2*-EC-L	610x610x69/90/110	1180x680x700	680x680x700	500x680x550	355
BFU-2.5x2*-EC-L	762x610x69/90/110	1332x680x700	832x680x700	500x680x550	355
BFU-3x2*-EC-L	915x610x69/90/110	1484x680x700	984x680x700	500x680x550	355
BFU-4x2*-EC-L	1220x610x69/90/110	1789x680x700	1289x680x700	500x680x550	355

AF-BFU-Z-Backward-curved:

BFU-EC-E: The height (H, H1, H2) of the Overall Size, Filter Housing, and Fan Housing is increased by 90 mm compared to the AF-BFU-Backward-curved type.

BFU-EC-L: The height (H, H1, H2) of the Overall Size, Filter Housing, and Fan Housing is increased by 100 mm compared to the AF-BFU-Backward-curved type.

***: Housing Material & Filter Thickness**