

THE DUO-STACK EXHAUST SYSTEM

ENHANCED EFFICIENCY FOR GENERAL LAB EXHAUST SOLUTIONS

The Duo-Stack exhaust system offers a compact, high-efficiency solution for safely ventilating hazardous or contaminated air from laboratory and industrial environments. Engineered for applications requiring reliable plume dispersion and low profile installation, the Duo-Stack system can feature single to multiple fan configurations for built-in redundancy and consistent performance. The Duo-Stack's low-noise design, energy efficiency, and reduced maintenance needs make it ideal for labs, universities, and research facilities with space or height limitations. It is a trusted choice for critical exhaust systems where safety, airflow control, and system reliability are non-negotiable.

ADVANTAGES

- The side-centrifugal backward-curved fan is designed to handle large air volumes and higher pressures while still maintaining efficiency in moving air against ductwork resistance.
- Due to their high efficiency and ability to handle higher pressures, backward-curved fans can contribute to overall energy savings by requiring less power to achieve the desired airflow and pressure conditions.
- The backward-curved fan design inherently provides stable performance characteristics, meaning the fan's performance curve remains relatively consistent even when subjected to varying pressures and airflow conditions.
- A true direct drive motor provides the longest L-10 life.
- The Duo-Stack fan offers the lowest vibration levels available; BV3 standard, up to BV5 industry leading.
- Industry leading coating with 7,000 hr. salt spray resistance is standard while options are available for spark resistance construction.
- The Duo-Stack comes with a standard 3-year warranty. Extended warranty and preventative maintenance package upgrade available.
- A modular plenum allows for ease of installation.
- Heat recovery options are available.



MOTOR

- Premium efficiency TEFC mill & chem duty Toshiba motor.
- L-10 rating – 150,000 hours.
- True direct drive.
- Roof level motor access easing motor change outs.

ADVANTAGES OF CENTRIFUGAL BLADE AND HOUSING

- Efficiency: Backward-curved blades are designed to handle higher pressures and move air efficiently against ductwork resistance.
- Lower Noise Levels: The gradual blade curvature minimizes air disturbance, resulting in quieter operation.
- High Airflow: Backward-curved fans can move large volumes of air while maintaining relatively high efficiency.
- Wide Operating Range: The blade design allows effective operation across a broad range of airflow rates and pressure conditions.
- Low Maintenance: Direct-drive backward-curved fans use fewer blades than forward-curved or radial designs, reducing maintenance requirements.
- Reduced Sensitivity to System Changes: These fans are less affected by changes in system resistance compared to other fan types.
- Energy Efficiency: High efficiency and pressure capability reduce power requirements, contributing to overall energy savings.
- Stable Performance: The backward-curved design provides consistent performance across varying pressures and airflow conditions.
- Reduced Risk of Material Buildup: Blade curvature discourages dust and debris accumulation on blade surfaces.



HOW CAN WE HELP?

Strobic Air's exhaust systems are engineered for high efficiency, durability, and regulatory compliance. Backed by our in-house engineering team, we deliver solutions tailored to each application. From life sciences and healthcare to high-containment research, Strobic Air provides reliable performance. Scan the QR code below or visit www.strobicair.com/contact-us to learn more.

AFTERMARKET SOLUTIONS

Strobic Air's Aftermarket solutions keep exhaust systems operating efficiently and reliably. From intuitive controls and energy-saving features to original-spec replacement parts and retrofit options, these solutions reduce downtime, lower energy use, and extend system life. Support includes on-site training, preventive maintenance, inspections, and repairs tailored to your system. Scan the QR code below or visit www.strobicair.com/aftermarket-contact to learn more.

CONTACT US



CONTACT AFTERMARKET



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