



AIR MIXERS

COMFORTABLE AIR AND
EFFICIENT HEATING AND COOLING
IS ALL ABOUT BALANCE.

While all air handlers are unique, each faces the common challenge of properly mixing the two streams of outside air and return air that enter through separate openings. KEES air mixers use a proprietary design with no moving parts to eliminate temperature stratification and velocity differentials that would otherwise travel through the air handler and into the ductwork. As a result, coils operate more efficiently, building occupants are more comfortable and fresh air is distributed more evenly. Our unique, flexible air mixer design allows for custom sizes and configurations to meet the needs of any air handler.



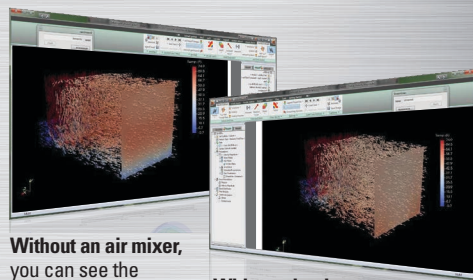
AIR MIXERS

PATENTED PERFECTION. CUSTOMIZED TO YOUR NEEDS.

- Our rectangular design offers unlimited flexibility to match the shape of the application. Every duct size and airstream is different, so every KEES air mixer configuration is unique.
- Our proprietary airfoil design features low-pressure drop mixing blades and a conical diverter—a patented solution that enhances energy efficiency.
- With decades of experience, our engineers analyze each application to ensure the best possible air mixing solution.
- If your application requires the durability of stainless steel, trust the fabrication experts at KEES to manufacture the optimal solution.

Computational Fluid Dynamic Modeling

Our experts can model and prove the most efficient air mixer configuration.



Without an air mixer, you can see the stratification of warm and cold air layers.

With an air mixer, the temperature of the air stream is more uniform.

CONSTRUCTION OPTIONS



AIR MIXERS IN PLENUM

MATERIALS

- Aluminum
- Stainless steel

SIZE

- No limits, we'll build your air mixer to meet any airflow or dimensional requirements

MOUNTING OPTIONS

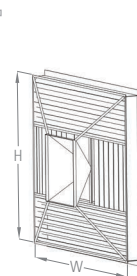
- Channel or flanged frames
- Blank-off panels to fill the space between the mixers and the inside of the air handler

HOUSING OPTIONS

- Plenum section with air mixers
- Mixing section with air mixers and dampers
- Viewports and access doors

Custom requests are welcome

Tell us what you have in mind



HERE'S WHY PROPER AIR MIXING MATTERS.

IMPROVE INDOOR AIR QUALITY

Properly mixed air ensures each space receives consistent proportions of fresh outside air and energy-efficient return air. This creates a healthier and more comfortable indoor environment for everyone.

MAXIMIZE EFFICIENCY

Properly mixed air has consistent temperatures and velocities. This uniformity allows coils and filters to operate at their maximum efficiency. It also ensures accurate temperature sensor readings so that economizer sections operate smoothly and efficiently.

ENSURE SMOOTH OPERATION

Properly mixed air eliminates cold spots. This is the best prevention against coil freeze-ups and the damage caused by ruptured coils. It also helps minimize nuisance trips of freeze-stats, avoiding downtime and phantom troubleshooting.

EXTEND LIFE OF COMPONENTS

Properly mixed air has a consistent velocity profile which loads coils and filters evenly. The simple addition of an air mixer will extend the service life of these components and add significant value to your HVAC investment.



THE 3M COMPANY relies on KEES air mixers to prevent air stratification and enhance energy efficiency in its new N95 mask facility. The rectangular configuration was tailored to the application to deliver fresher and healthier air to their critical workforce teams, helping create a more comfortable environment.

OTHER SATISFIED CUSTOMERS

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Las Vegas Police Department

Microsoft Corporation

Milwaukee Post Office

Walter Reed National Military Medical Center

American Heart Association

Target Corporation

Merchandise Mart

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BENDING METAL • SCULPTING AIR