



Upgrade Old Fan Systems with **FANWALL TECHNOLOGY®**

Retrofit Old Fan Systems with Ease



Are you looking for a solution for replacing a large fan in a hard to get to place?



FANWALL® cells from Temtrol fit through a standard width doorway & elevator and are easy to handle.



Stack FANWALL cells in a fraction of the old fan footprint to form a FANWALL array of any dimension.



Precision balanced direct drive fan wheels and maintenance free bearings result in reliable, efficient operation.



FANWALL cells easily connect at the corners. Inlet screen option loads fan evenly and helps lower sound levels.



**FANWALL TECHNOLOGY—
The Right Fit**

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Upgrade Now

Continuous and uninterrupted airflow is the lifeblood of any healthcare facility, making under-performing or unreliable fans unacceptable. In addition to concerns about

reliability, these inefficient fans can be the biggest consumer of energy in a building—skyrocketing energy costs. In today's economic environment, and during a time when sustainable building design is increasingly important, healthcare facilities must select a HVAC fan which will not only provide the necessary reliability, but also optimum efficiency and environmental benefits as well.

FANWALL TECHNOLOGY

by HUNTAIR® provides this solution. The over half billion dollars of FANWALL arrays installed today is a testimonial to their superior performance.

Reliability Through Redundancy



FANWALL provides superior reliability as a result of its built-in redundancy. If one fan fails, only that portion of the airflow is lost, unlike

single fan systems where the entire air handler goes offline. Moreover, the loss of airflow from one fan can be offset by increasing the speed on the remaining fans.

Small Size Makes Upgrades Possible



A FANWALL® array of any capacity or pressure requires a maximum airway length of 36 inches, compared to three or four times that

amount for traditional fan systems. Each cell can fit through a standard width door and may be stacked in whatever geometry to match the air tunnel size.

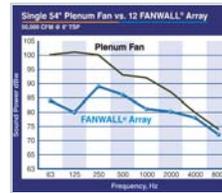
Energy Savings



FANWALL systems provide significant energy savings through a variety of means. Smaller motor HP increments and partial width fan wheels more

closely match application HP needs without excessive motor oversizing. In addition, FANWALL motors run closer to their peak motor efficiency at part-load conditions than larger single motor fans. Further, FANWALL arrays eliminate sound traps and produce less system effects for lower static pressure loss and reduced HP needs. Finally, FANWALL arrays offer the option to shut off part of the array during part load operation, while remaining fans operate near full load—meaning more efficient operating and energy savings.

Lower Sound Levels and Vibration



Increase occupant satisfaction with lower sound levels. Unhoused fans operating at higher speeds produce less low frequency sound.

Reduce sound levels even more with FANWALL's unique Coplanar Silencer® and inlet screen options; which also reduces, or even eliminates the need for expensive acoustical attenuation materials and devices.

Less Maintenance



FANWALL arrays are made of direct drive arrangement four fans and utilize maintenance-free bearings, so there are

no belts to replace or bearings to grease. The small size of the motors and fans allow them to be easily changed out without expensive rigging equipment.

Contact your local CES Group® Representative or visit our website to learn more.

Anatomy of FANWALL TECHNOLOGY®

A FANWALL® system is an array of smaller, quieter, and more energy-efficient fans, typically driven with a variable speed drive, and designed to deliver the required airflow in an air handler or built-up fan system. A fan array enables designers to optimize more closely the fan-wheel geometry and motor horsepower for a specific application. The result is smaller fans and motors, running closer to peak efficiencies, thus reducing energy costs. The redundancy of the fan components adds to the unit's reliability. If one motor fails, only that portion of the airflow is lost, unlike single-fan air-handlers. FANWALL TECHNOLOGY is ideal for fan retrofit applications as each FANWALL cell is easily moved through a standard width door or elevator, and stacked like building blocks to fit the profile of the air tunnel.

Benefits of FANWALL TECHNOLOGY

- Reduce energy bill with higher fan efficiencies
- Lower connected load reduces electrical demand and backup generator size
- Increase uptime with fan redundancy
- Reduce maintenance expense with no belts or bearings to maintain plus commonality of parts between fan cells
- Lower your sound levels and eliminate sound traps, also eliminating associated energy loss
- Eliminate expensive fan isolation or pads
- Gain back valuable real estate with smaller fan footprint
- Avoid demolition/cranes during upgrade
- Minimize system downtime during retrofit
- Technology supports the LEED® initiative for creating sustainable buildings



www.temtrol.com
info@temtrol.com

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