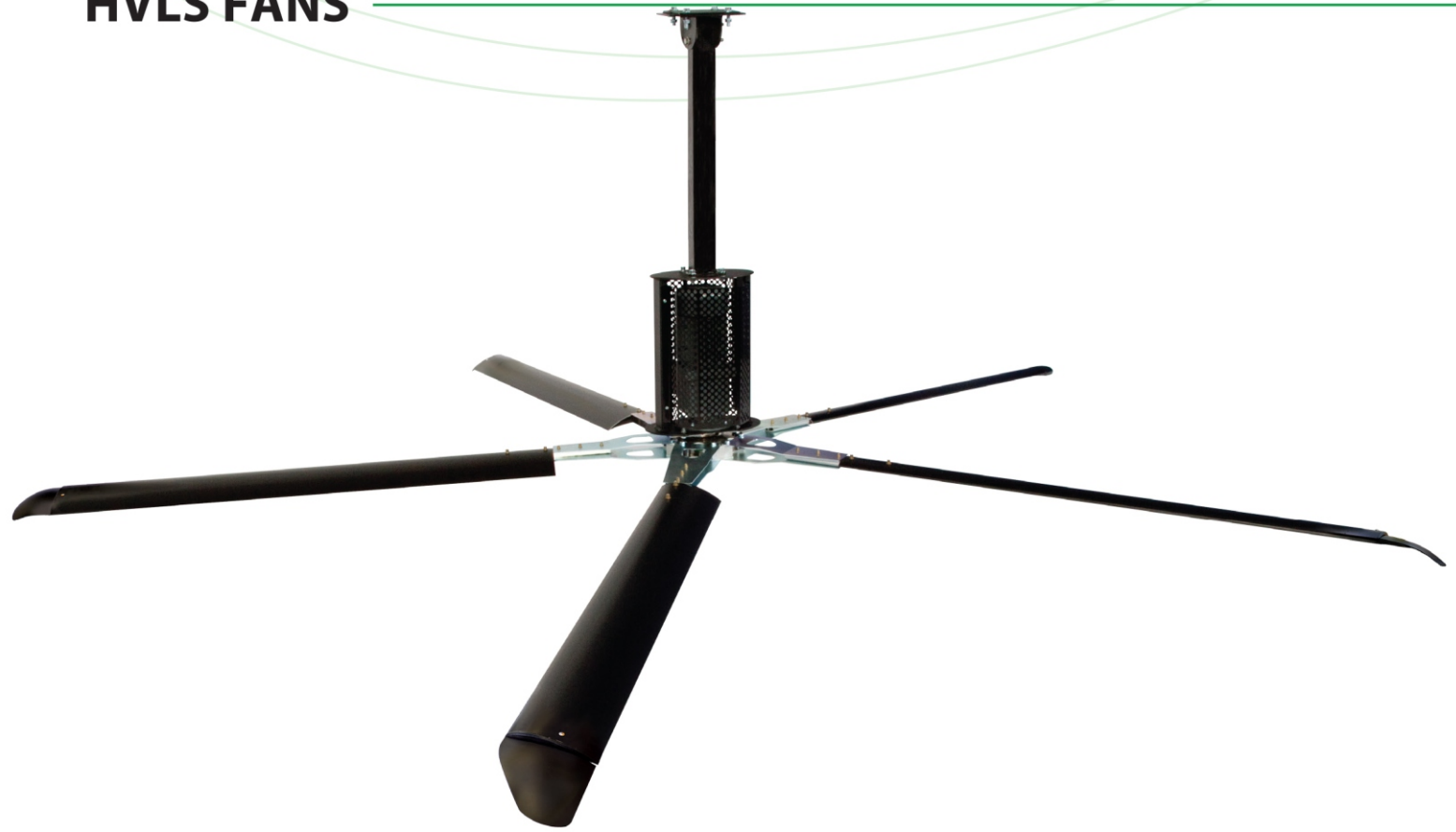


HVLS FANS



Kelley® India is wholly owned subsidiary of 4Front Engineered Solutions, Dallas, Tx, USA (owned by Entrematic, part of ASSA ABLOY group). Kelley® India engineers are trained in the USA and they use their expertise to help make work places safer, more productive and increase energy saving for customers in variety of applications. Its pan India network ensures seamless and prompt after sales support.

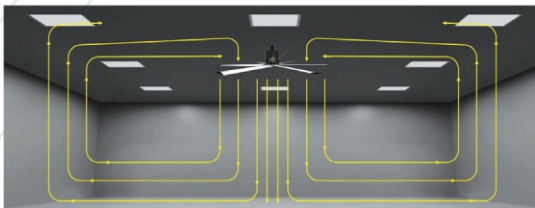
Kelley® drew the blueprint for the loading dock industry with the invention of the first counter balanced dock leveler in 1953 in the USA. Through passion for engineering, Kelley evolved to produce a comprehensive portfolio of solutions, which include a line of Hydraulic, Air Powered and Mechanical Dock Levelers, HVLS Fans, vehicle restraints, integrated control systems, ergonomic lift tables, energy-saving dock seals and shelters, which are manufactured in seven state-of-the-art facilities globally.

Kelley® high volume and low speed fan “the HVLS Fan” is designed to provide an energy-efficient solution for large spaces almost noiselessly. HVLS fans require much less energy than a traditional HVAC systems and provide year-round comfort.

Kelley Entrematic Industrial HVLS Fans

Kelley® Industrial High Volume Low Speed (HVLS) Fans circulate air efficiently which positively impact many factors in your facility. The biggest challenge any facility (whether manufacturing or warehouse or hotel or place of worship or a shopping mall) today face is the comfort to the people around and even bigger problem is the increasing electricity issues.

The Kelley HVLS Fan's airfoil style blade design produces a massive, cylindrical column of air that flows down to the floor and outward in all directions, creating a horizontal floor jet that consistently circulates air in large spaces. This "horizontal floor jet" pushes air a greater distance before it is pulled back vertically toward the blades. The greater the down flow, the greater the air circulation and resulting benefits. In the colder months, fans can be run in reverse to circulate the hot air trapped at ceiling level known as "destratification".



Product Specifications

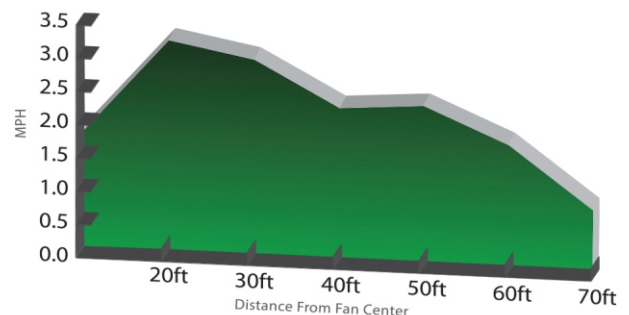
Diameters : 8', 10', 12', 14', 16', 18', 20', 24'

Motor : 1 HP (8-20') and 2 HP (24')-3 Phase

Noise level : Less than 60dB (Quiet Operation)

Coverage : Up to 30,000 sq ft with a 24' fan (Under ideal test conditions)

Controls : Digital touch screen remote (connection via CAT5E cable)



A typical graph for 24' x 2 HP-3 Ph Kelley HVLS Fan operating at 70% of max. speed (Under Ideal test Conditions)

Key Benefits of Kelley HVLS Fans

- **Keeps employees cool and comfortable**
 - The 2 - 3 mph breeze created by Kelley fans delivers the equivalent of a 7 - 11 degree F decrease in perceived temperature
 - Almost noiseless fan operation (<60 dB) makes employee concentrate more and perform better compared to traditional wall mounted fans.
 - Research supports that increased employee comfort can result in improved productivity and safety
- **Reduces energy consumption**
 - Working with the HVAC system, Kelley fans help regulate temperature from ceiling to floor, which can allow a facility to raise its thermostat setting 3 - 5 degrees. This creates a energy savings of up to 4% per degree change.
- **Protect product integrity**
 - Air circulation helps keep food and produce dry and fresh, reducing potential for decay or spoilage
 - Air circulation reduces stagnant air, hot and cold spots and condensation
 - Kelley fans are also designed to operate in reverse, which helps de-stratify air in cool season
- **Improves general working conditions**
 - Floor condensation is minimized, keeping floors drier and safer for foot and motorized traffic
 - Improved indoor air quality through the dispersing of fumes
- **Contributes to LEED certification credits in various categories**
 - Energy and Atmosphere
 - Indoor Environmental Quality
 - Innovation and Design

Product Components

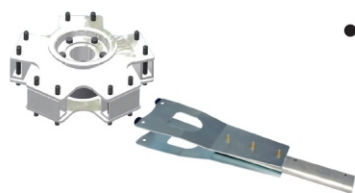
The Kelley Industrial HVLS Fan features an advanced blade profile which means more lift while the five (5) blade design results in less stress to your building. The combination of these engineering discoveries equates to an increase in airflow without increasing energy usage.

- **Safety**

- Three point safety connection system in the hub provides redundant safety
- Safety cable for mounting bracket
- 4 Numbers of guy wires
- Blade lanyards

- **Frame and mounting hardware:**

- Aesthetically pleasing frame cover allows for a wider range of applications
- Single axis mount decreases potential fan movement while maintaining low torque transfer.
- Mount self levels on pitched sloped roofs for easy installation



- **Hub and strut assembly:**

- Patent-pending M3 strut design adds strength and rigidity to improve fan performance
- Multi-piece aluminum hub distributes the load across the hub assembly
- Three point safety connection system provides redundant safety

- **Blade:**

- Patent-pending blade design optimizes airflow by increasing lift
- Vertical support increases rigidity and strength
- Up to 70% efficiency in reverse



- **Winglet:**

- Maximizes efficiency of airfoil by reducing induced drag
- Specifically designed for stationary rotary airfoil operating at slow speeds (patent-pending)
- Vortices are generated below the airfoil, directing turbulence away from the trailing blade



- **VFD Assembly:**

- High efficiency Variable Frequency Drive (VFD). In line fusing with disconnect.
- VFD mounted outside swept area of the blades
- Supplied with 25' of 14 gauge SO cable (pre-wired to motor) from the factory
- Easy integration for networking or integration into fire suppression panels

- **Remote:**

- Digital touch screen
- Numerical pass code protection
- Floor level diagnostics
- CAT5 E low voltage connection



iFAN™ Network Controls

iFAN allows customers to maximize the benefit of their HVLS fans by enabling centralized fan control. iFAN's graphics allow customers to clearly pinpoint where their fans are located within the facility.

iFAN's graphics also enhance each fan's visual appearance, aiding trouble shooting efforts, clarifying facility layout, and improving group fan control. iFAN is the next generation of fan control.



Optional Feature

Commercial HVLS Fan



Say hello to a new class of ceiling fans. An energy-efficient solution that combines exceptional style with best-in-class performance to keep your space cool and comfortable. The C-Class commercial fan moves a substantial amount of air, while giving you endless customization options to make it your own.

C-Class – by Kelley Entrematic Fans – is designed to provide a sleek and stylish design, a low sound dBA level that's so quiet it's like the fan's not even there, and performance far superior to its competitors. C-Class means wireless control which gives you the ability to mount the control where you want it. With its adaptable and configurable color design options, C-Class is a fan that truly caters to your unique environment covering large area.



KEY FEATURES

- Wireless Controls
- Reverse Capability
- Fire Shut Down Integration
- Gearless Direct Drive Motor
- Less Than 35 dBA*
- ETL to UL507 Certification
- Diameters: 6', 8', 10', 12', 14'

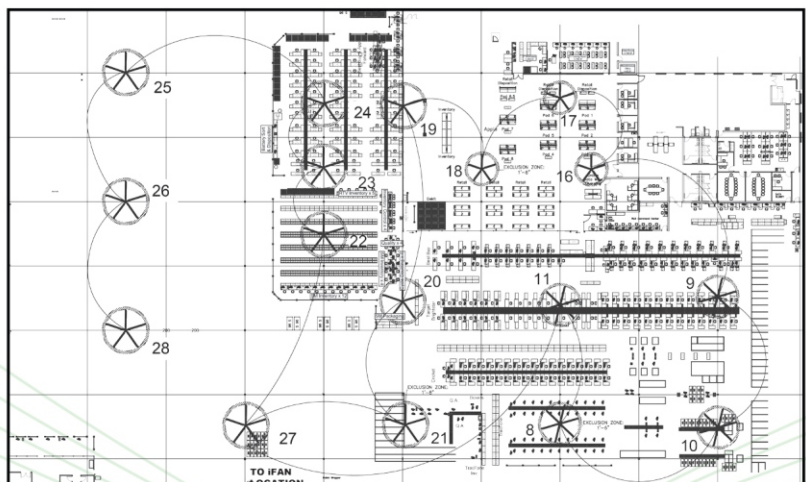
STANDARD WIRELESS REMOTE



OPTIONAL FEATURES:

- Multi Fan Control
- BACnet (BMS)
- Modbus (BMS)

Call Kelley Expert Today



Wide Applications of HVLS Fans

Kelley HVLS Fans are ideal for Manufacturing facility, Warehouses, Airports, Shopping Malls, Hospitals, Retail Stores, Religious Places, Showrooms, Hotels, Sports Arena, Restaurants, and many more...



KELLEY® : A History of Innovation

Product innovation and repeatable manufacturing are just some of the core competencies that have made the Kelley brand the industry standard for quality and durable loading dock equipment & HVLS Fans. Made possible through our significant investment in manufacturing technology, Kelley has become a leader by not only introducing many industry firsts but by utilizing our capability to design, engineer and manufacture the highest quality products consistently.

Our products are installed in locations on nearly every continent in the world. Today, this product offering extend well beyond dock levelers and dock doors to include yard and dock management systems, a full line of energy saving products and HVLS Fans to support a growing global need to move air more efficiently.



“Our products are designed and manufactured to enhance key operational requirements and parameters that are becoming more and more prevalent in the Indian marketplace.”

Steve Sprunger, President
4Front Engineered Solutions, Inc.



Kelley Material Handling Equipment India Pvt Ltd.

(100% wholly owned subsidiary of 4Front Engineered Solutions, Inc., Dallas, Texas, USA)

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