AIRIUS®

The World Standard
For Destratification


*811 S. Sherman St., Longmont, CO 80501*
*http://airiusfans.com*

*888-247-7327*
*info@airiusfans.com*

# The Air Pear

## Since its release in 2004, the Air Pear by Airius has been the go-to solution to combat thermal stratification in buildings around the world.

The Air Pear, available in several models, is suitable for use in buildings with ceilings from 8 to 100 ft. and is available in off-white, grey, or black.

At delivery, the Air Pear's fan speed can be pre-optimized for your building's layout. We also offer multiple control options, including variable speed or wireless control for use by staff or with energy automation platforms.

### Adaptability

Adaptable bail and eye bolts allow easy installation. Airflow can be directed along any vector for precision use.

### Cord length

6 ft. cord length is standard, which can be hardwired or powered standalone with 3-prong plug attachment.

### Seismic leash anchor

The leash anchor point is a safety precaution for those working underneath the Air Pear. Includes 6' steel cable.

### Ultra quiet

Airius fans are ultra-quiet and can be specified for environments such as offices, retail stores, and even libraries.

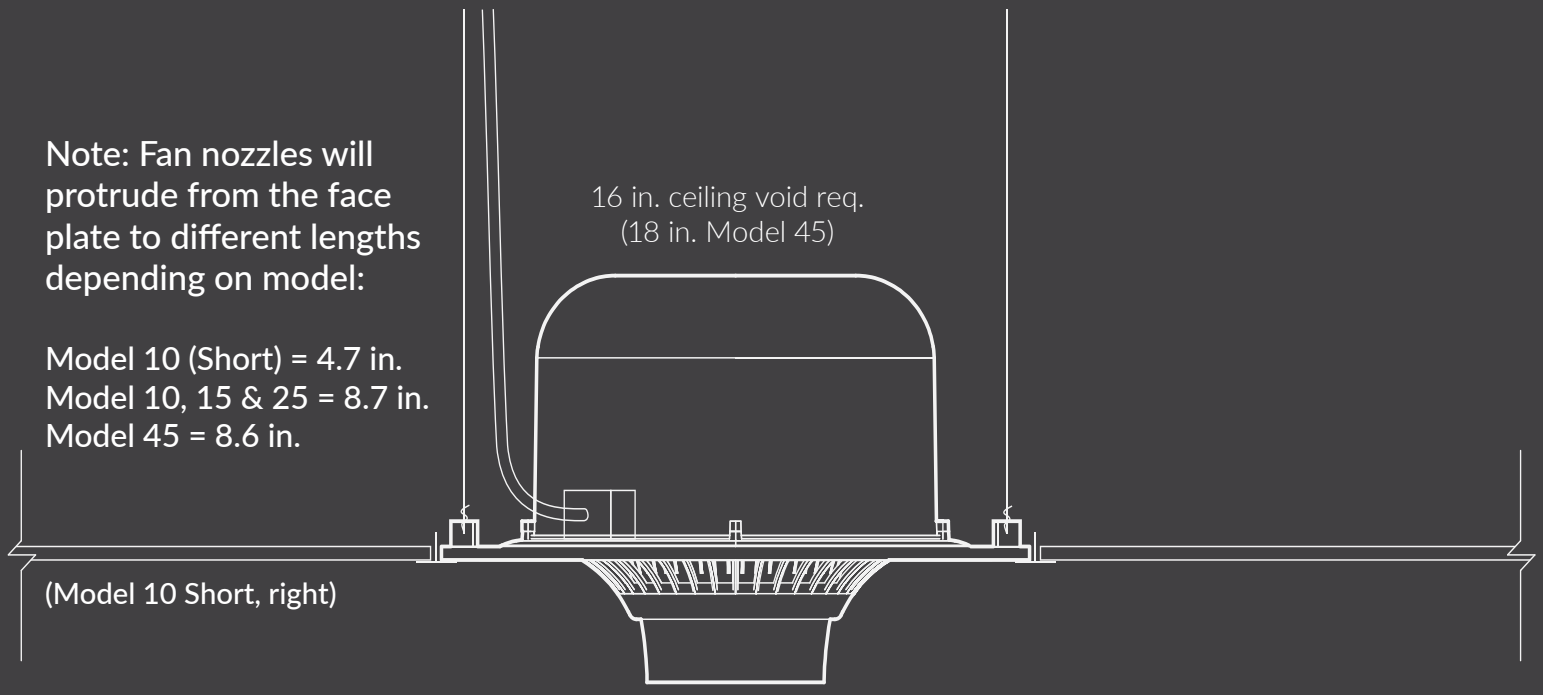
# Suspended Ceiling Series

## The Air Pear designed to fit acoustic ceiling tile dimensions

The Airius Suspended Ceiling Series is suitable for buildings with T-Bar ceilings (up to a height of 45 ft.) where discreet installation is required. The unit houses an Air Pear destratification fan and is designed to recirculate air from just below the ceiling. Available in off-white and black.

Note: Fan nozzles will protrude from the face plate to different lengths depending on model:

Model 10 (Short) = 4.7 in.
Model 10, 15 & 25 = 8.7 in.
Model 45 = 8.6 in.



# Designer Series

Save energy in style and specify the Designer Series by Airius, featuring a cylindrical aluminum housing that can be painted to any custom color.

Units in the Designer Series by Airius are functionally similar to the units in the Air Pear family with additional customization options available.

Models from the Designer Series are enclosed in a white powder-coated or custom-painted aluminum housing and are perfectly suited to architecturally sensitive installations.

Like with the Air Pear, we can customize the Designer Series with motor and control options to suit your destratification requirements.

The Designer Series, available in several sizes, is suitable for installation in buildings with ceiling heights ranging from 8 ft. to 125 ft.

**The Airius Designer Series provides you with a solution to suit any building, blending in with environments effortlessly without taking on the appearance of a typical fan.**

# Q Series

## For sound-sensitive installations, the Q Series is designed to maximize airflow and dramatically reduce noise.

Airius' Q Series fan is newly designed to maximize airflow and dramatically reduce noise. Working in concert, each Q Series fan delivers gentle, efficient air circulation to balance overall air temperature from ceiling to floor and wall to wall. Available in two motor types to suit ceiling height requirements up to 45 ft.

# Retail Series

## Narrow Aisle configuration provides an elongated airflow pattern to maximize spread down the length of an aisle.

In addition to the Narrow Aisle model (left), the standard nozzle (right) can also be used for areas that do not require an elongated pattern. Available with a factory programmed motor to suit ceiling height requirements up to 22 ft.

# THE STATOR ADVANTAGE

The side-by-side photographs shown here illustrate the advantage of the patented Airius stator over other tube fans. Lower turbulance and increased throw distance is clearly visible in the Airius (left).

Our testing indicates that non-optimized destratification fans with inferior designs achieve half the potential of an Airius model.

That's why Airius is the worldwide standard in thermal destratification.

* (left) Airius Model 60-EC
* (right) Our top competitor's best try

## Patented Stator

Spinning fan blades introduce a rotational component into the air stream, causing turbulence and reducing throw distance.

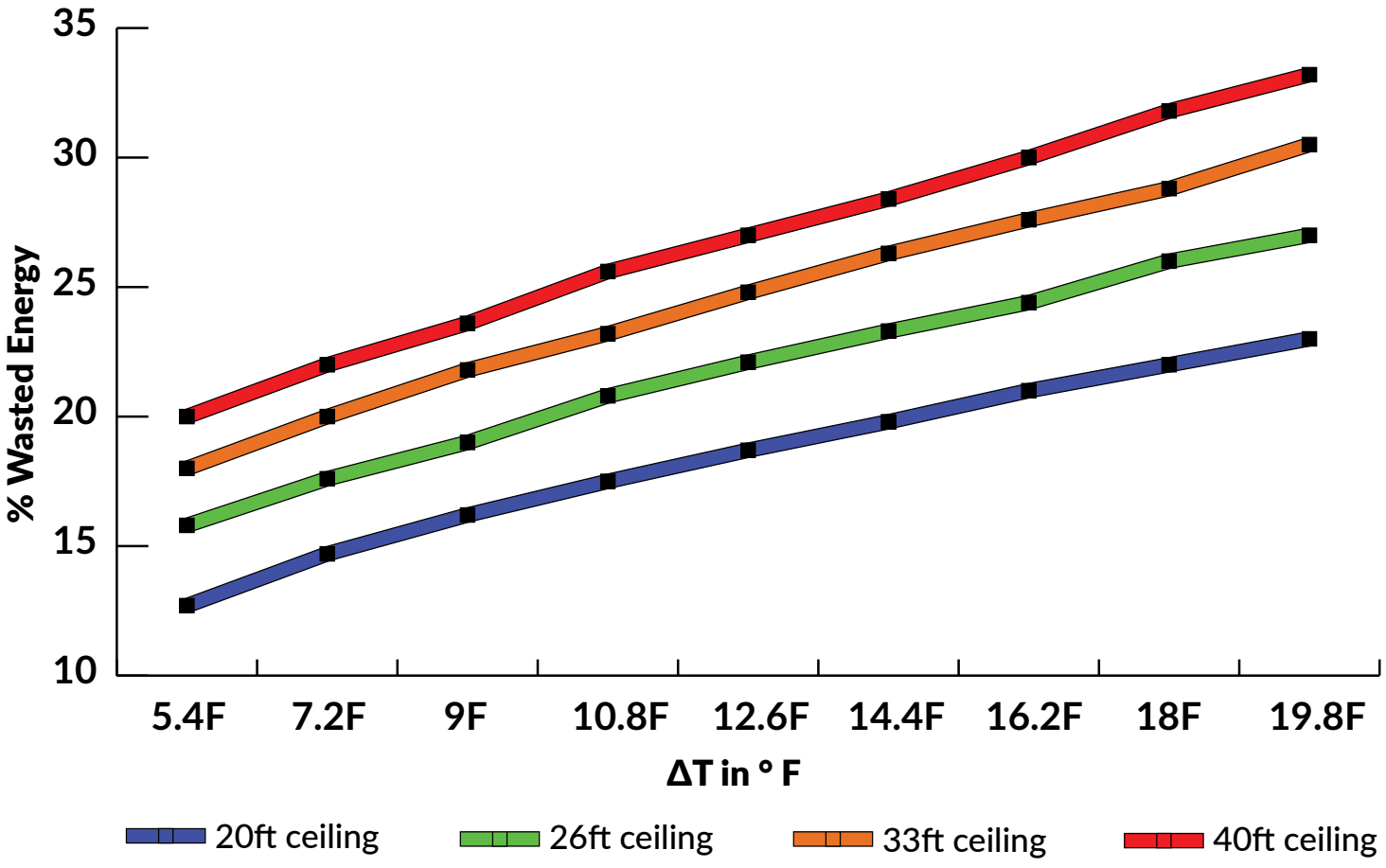
Airius' patented multi-vane stator removes this rotational energy to deliver a steady column of air from heights no competitor can match.

# REDUCING THE COST OF STRATIFICATION

| ΔT in ° F | 5.4 ° | 7.2 ° | 9 ° | 10.8 ° | 12.6 ° | 14.4 ° | 16.2 ° | 18 ° | 19.8 ° |
|---|---|---|---|---|---|---|---|---|---|
| 20 ft. ceiling | 12.7% | 14.7 | 16.2 | 17.5 | 18.7 | 19.8 | 21 | 22 | 23 |
| 26 ft. ceiling | 15.8% | 17.6 | 19 | 20.8 | 22.1 | 23.3 | 24.4 | 26 | 27 |
| 33 ft. ceiling | 18% | 20 | 21.8 | 23.2 | 24.8 | 26.3 | 27.3 | 28.8 | 30.5 |
| 40 ft. ceiling | 20% | 22 | 23.6 | 25.6 | 27 | 28.4 | 30 | 31.8 | 33.2 |

*% of Energy Costs*

**EXAMPLE:** According to a study by the Building Scientific Research Information Association, if you have a 33 ft. ceiling with a floor-to-ceiling temperature differential of 14.4 °F, then you could potentially reclaim up to 26.3% of lost heat energy with a destratification system.




Computational Fluid Dynamics for a 100' x 165' x 26' building with a 100 kW gas heater at 3,600 cfm. Insulation and lighting constant. Building Scientific Research Information Association, UK, 1997.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# SPECIFYING GUIDE

## REPRESENTS OVER 315 MODELS

| Legend | |
|---|---|
| **A** | Air Pear (For exposed structure) |
| **S** | Suspended Ceiling Air Pear (For ACT) |
| **D** | Designer Series (For exposed structure) |
| **Q** | Q Series (For exposed structure) |
| **R** | Retail Series (For exposed structure) |
| **SP** | Shaded Pole (TRIAC Speed Control) |
| **P4** | Permanent Split Capacitor - Std Speed (TRIAC Speed Control) |
| **P2** | Permanent Split Capacitor - High speed (TRIAC Speed Control) |
| **EC** | Electrically Commutated (potentiometer or 0-10 VDC) |
| **EL** | Electrically Commutated (Wireless FanCenter Controlled) |
| **STD** | Standard Nozzle |
| **SH** | Short Nozzle |
| **NA** | Narrow Aisle Nozzle |
| **W** | Off-White |
| **G** | Gray |
| **B** | Black |
| **C** | Custom Color |

Example ordering logic:

**Model A-45-P4-STD-120-W**

| Air Pear | | | | | |
|---|---|---|---|---|---|
| **Style** | **Model** | **Motor Type** | **Voltage** | **Nozzle** | **Color** |
| A | 10 | SP | 120<br>230 | STD<br>SH | W<br>G<br>B |
| | | EC | 100-130<br>200-250 | | |
| | 15 | SP | 120<br>230 | | |
| | | EC | 100-130<br>200-250 | | |
| | 25 | SP | 120<br>230<br>277 | | |
| | | EC | 100-130<br>200-250 | | |
| | 45 | P4 | 120<br>230<br>277 | STD | |
| | | P2 | | | |
| | | EC | 100-130<br>200-277 | | |
| | | EL | | | |
| | 60 | P4 | 120<br>230<br>277 | | |
| | | EC | 100-130<br>200-277 | | |
| | | EL | | | |
| | 100 | EC | 100-130<br>200-277 | | |
| | | EL | 200-277 | | W |

## Suspended Ceiling

| Style | Model | Motor Type | Voltage | Nozzle | Color |
|---|---|---|---|---|---|
| S | 10 | SP | 120<br>230 | STD<br>SH | W<br>B |
| | | EC | 100-130<br>200-250 | | |
| | 15 | SP | 120<br>230 | | |
| | | EC | 100-130<br>200-250 | | |
| | 25 | SP | 120<br>230<br>277 | | |
| | | EC | 100-130<br>200-250 | | |
| | 45 | P4 | 120<br>230<br>277 | STD | |
| | | P2 | | | |
| | | EC | 100-130<br>200-277 | | |
| | | EL | | | |

## Q Series

| Style | Model | Motor Type | Voltage | Nozzle | Color |
|---|---|---|---|---|---|
| Q | 50 | P4 | 120 | STD | W<br>B |
| | | EC | 100-130<br>200-240 | | |

## Retail Series

| Style | Model | Motor Type | Voltage | Nozzle | Color |
|---|---|---|---|---|---|
| R | 20 | EC | 100-130<br>200-240 | STD<br>NA | W |

## Designer Series

| Style | Model | Motor Type | Voltage | Nozzle | Color |
|---|---|---|---|---|---|
| D | 10 | SP | 120<br>230 | STD<br>SH | W<br>C |
| | | EC | 100-130<br>200-250 | | |
| | 15 | SP | 120<br>230 | | |
| | | EC | 100-130<br>200-250 | | |
| | 25 | SP | 120<br>230<br>277 | | |
| | | EC | 100-130<br>200-250 | | |
| | 45 | P4 | 120<br>230<br>277 | STD | |
| | | P2 | | | |
| | | EC | 100-130<br>200-277 | | |
| | | EL | | | |
| | 60 | P4 | 120<br>230<br>277 | | |
| | | EC | 100-130<br>200-277 | | |
| | | EL | | | |
| | 125 | EL | 200-277 | | |

## Color Swatches

(For Pantone values, contact Sales)

# SHADED POLE MOTORS

*Single-phase, shaded pole, single-speed (variable with optional speed control) axial motor. Motor is thermally protected. Available in short and standard nozzles. Optionally add PHI cells, intake grille, TRIAC speed control.*

**Air Pear Model 10** & **Designer 10** & **Suspended 10**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 10-SP | 120 | 50/60 | 0.11/0.13 | 13/15 | 318 | 24 | Up to 12 ft./500 ft² |
| 10-SP | 230 | 50/60 | 0.06/0.06 | 12/13 | 318 | 24 | Up to 12 ft./500 ft² |

**Air Pear Model 15** & **Designer 15** & **Suspended 15**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 15-SP | 120 | 50/60 | 0.11/0.14 | 13.5/17 | 406 | 29 | Up to 18 ft./800 ft² |
| 15-SP | 230 | 50/60 | 0.06/0.07 | 15/17 | 406 | 29 | Up to 18 ft./800 ft² |

**Air Pear Model 25** & **Designer 25** & **Suspended 25**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 25-SP | 120 | 50/60 | 0.30/0.32 | 30/35 | 547 | 45 | Up to 25 ft./1200 ft² |
| 25-SP | 230 | 50/60 | 0.14/0.13 | 31/33 | 547 | 45 | Up to 25 ft./1200 ft² |
| 25-SP | 277 | 50/60 | 0.13/0.17 | 35/45 | 547 | 45 | Up to 25 ft./1200 ft² |

# PERMANENT SPLIT CAPACITOR

*Single-speed (variable with optional speed control) axial motor.*

**Air Pear Model 45** & **Designer 45** & **Suspended 45**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 45-P2 | 120 | 50/60 | 1.05/1.48 | 120/175 | 1057/1128 | 64 | Up to 45 ft./1200 ft² |
| 45-P2 | 230 | 50/60 | 0.54/0.7 | 125/165 | 1072/1160 | 64 | Up to 45 ft./1200 ft² |
| 45-P2 | 277 | 60 | 0.7 | 190 | 1301 | 64 | Up to 45 ft./1200 ft² |
| 45-P4 | 120 | 50/60 | 0.40/0.41 | 44/46 | 595/715 | 54 | Up to 38 ft./1200 ft² |
| 45-P4 | 230 | 50/60 | 0.19/0.2 | 42/45 | 595/707 | 54 | Up to 38 ft./1200 ft² |
| 45-P4 | 277 | 50/60 | 0.19/0.2 | 42/45 | 595/707 | 54 | Up to 38 ft./1200 ft² |

**Air Pear Model 60** & **Designer 60**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 60-P4 | 120 | 50/60 | 0.91/0.92 | 88/108 | 1443/1665 | 60 | Up to 60 ft./2000 ft² |
| 60-P4 | 230 | 50/60 | 0.57/0.66 | 120/150 | 1667/1902 | 60 | Up to 60 ft./2000 ft² |
| 60-P4 | 277 | 60 | 0.68 | 170 | 2002 | 60 | Up to 60 ft./2000 ft² |

*0-static motor data supplied by fan manufacturer. Subject to change at any time.
**Sound pressure level at 3 ft. For more detail on sound and noise levels, contact Airius Sales.

# ELECTRICALLY COMMUTATED

*High quality ebm-papst, electrically commutated, 92% efficient motor. 230 mm impeller diameter. Motor is thermally protected. Optionally add PHI cells or wall-mounted potentiometers.*

**Air Pear Model 10** & **Designer 10** & **Suspended 10**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 10-EC | 100-130 | 50/60 | 0.12 | 7 | 318 | 24 | Up to 12 ft./500 ft² |
| 10-EC | 200-250 | 50/60 | 0.06 | 7 | 318 | 24 | Up to 12 ft./500 ft² |

**Air Pear Model 15** & **Designer 15** & **Suspended 15**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 15-EC | 100-130 | 50/60 | 0.17 | 11 | 406 | 29 | Up to 18 ft./800 ft² |
| 15-EC | 200-250 | 50/60 | 0.08 | 11 | 406 | 29 | Up to 18 ft./800 ft² |

**Air Pear Model 25** & **Designer 25** & **Suspended 25**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 25-EC | 100-130 | 50/60 | 0.4 | 30 | 620 | 51 | Up to 25 ft./1200 ft² |
| 25-EC | 200-250 | 50/60 | 0.26 | 30 | 620 | 51 | Up to 25 ft./1200 ft² |

**Air Pear Model 45** & **Designer 45** & **Suspended 45**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 45-EC | 100-130 | 50/60 | 0-2.2 | 0-170 | 0-1180 | 71 | Up to 45 ft./1500 ft² |
| 45-EC | 200-277 | 50/60 | 0-1.4 | 0-175 | 0-1290 | 71 | Up to 45 ft./1500 ft² |

**Air Pear Model 60** & **Designer 60**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 60-EC | 100-130 | 50/60 | 0-2.2 | 0 - 170 | 0-1825 | 63 | Up to 60 ft./2000 ft² |
| 60-EC | 200-277 | 50/60 | 0-1.3 | 0 - 170 | 0-1770 | 63 | Up to 60 ft./2000 ft² |

**Air Pear Model 100**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | MOUNTING HEIGHT |
|---|---|---|---|---|---|---|---|
| 100-EC | 100-130 | 50/60 | 0-4.2 | 0 - 350 | 0-3210 | 66 | Up to 100 ft./2500 ft² |
| 100-EC | 200-277 | 50/60 | 0-2.5 | 0 - 390 | 0-3358 | 66 | Up to 100 ft./2500 ft² |

# EL / WIRELESS

*High quality ebm-papst, electrically commutated, 92% efficient motor. Controlled by wireless FanCenter, a browser-based fan management system.*

**Air Pear Model 45** & **Designer 45** & **Suspended 45**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 45-EL | 100-130 | 50/60 | 0-2.2 | 0-170 | 0-1180 | 71 | Up to 45 ft./1500 ft² |
| 45-EL | 200-277 | 50/60 | 0-1.4 | 0-175 | 0-1290 | 71 | Up to 45 ft./1500 ft² |

**Air Pear Model 60** & **Designer 60**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 60-EL | 100-130 | 50/60 | 0-2.2 | 0-170 | 0-1825 | 63 | Up to 60 ft./2000 ft² |
| 60-EL | 200-277 | 50/60 | 0-1.3 | 0-170 | 0-1770 | 63 | Up to 60 ft./2000 ft² |

**Air Pear Model 100**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 100-EL | 200-277 | 50/60 | 0-2.5 | 0-390 | 0-3358 | 66 | Up to 100 ft./2500 ft² |

**Designer Model 125**

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 125-EL | 200-277 | 50/60 | 0-1.8 | 0 - 400 | 0-5200 | 65 | Up to 125 ft./3000 ft² |

# SPECIALTY UNITS

**Q-SERIES** *Electrically commutated, 92% efficient motor. 0-10 VDC control. Quiet running units.*

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 50-EC | 100-130 | 50/60 | 0-1.6 | 0-110 | 0-1450 | 62.7 | Up to 50 ft./2000 ft² |
| 50-EC | 200-240 | 50/60 | 0-0.8 | 0-98 | 0-1406 | 62.7 | Up to 50 ft./2000 ft² |
| ***Permanent split capacitor*** | | | | | | | |
| 50-P4 | 120 | 50/60 | 0.65/0.8 | 70/90 | 721 | 61.6 | Up to 45 ft./2000 ft² |

**RETAIL SERIES** *Electrically commutated, 92% efficient motor. Directed throw nozzle*

| Model | Volts | Hz | *AMPS | *WATTS | *MAX CFM | **dB(A) | HEIGHT/COVERAGE |
|---|---|---|---|---|---|---|---|
| 20-EC | 100-130 | 50/60 | 0.4 | 30 | 620 | 57.5 | Up to 20 ft./1200 ft² |
| 20-EC | 200-240 | 50/60 | 0.26 | 30 | 620 | 57.5 | Up to 20 ft./ 1200 ft² |

# SPEED CONTROL / MANAGEMENT

## TRIAC

| Model | Volts | *AMPS |
|---|---|---|
| 120-1.5 | 120 | 1.5 |
| 120-5 | 120 | 5 |
| 120-15 | 120 | 15 |
| 230-8 | 230 | 8 |
| 277-5 | 277 | 5 |
| SMART | 95-250 | 7.5 |

### For Shaded Pole Motors

Airius fans using a shaded pole (SP) or permanent split capacitor motor (P2 or P4) can be controlled using a wall-mounted TRIAC speed control inline with the fan power circuit.

Make sure to coordinate speed control selection with the fan's electrical requirements. Various quantities of fans can be controlled via a TRIAC speed control. Refer to individual information sheets for more details.

## POTENTIOMETER

### For EC Motors

All EC-designated motors (25-EC with control module, 45-EC, 60-EC, or 100-EC) utilize a low voltage control circuit that can be daisy chained between fans to modulate speed as a group. This circuit can be controlled via a wall-mounted potentiometer or tied to a building automation system capable of 0-10 VDC signal.

## FANCENTER

### For EL Motors

All EL-designated motors (45-EL, 60-EL, or 100-EL) utilize a FanCenter Manager to monitor and control fan speed, rotation direction, 24/7/365 scheduling and error reporting. FanCenter features an easy-to-use, web-based interface to manage the speed, direction, and run-time of Airius fans based upon schedules and demand response requests while providing local or remote access for a facility or campus. Great for high bay spaces, large arrays, or multi-building control. Local and remote access can be enabled. Optional Connect software allows connectivity between BACnet/IP, Modbus TCP, or Tridium NiagaraAX framework. (Wired and wireless version available).

# SUBMITTAL FORMS: AIRIUSFANS.COM

Athletic Facilities

Atriums & Lobbies

Auto Services & Dealers

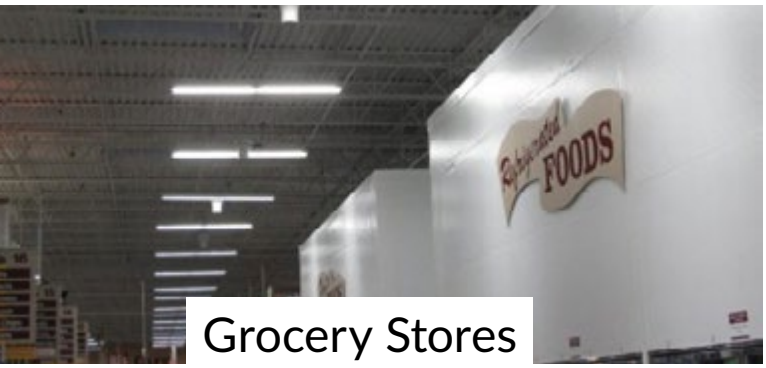

Aviation

Bars & Breweries

K-12 & Universities

Government

Greenhouses

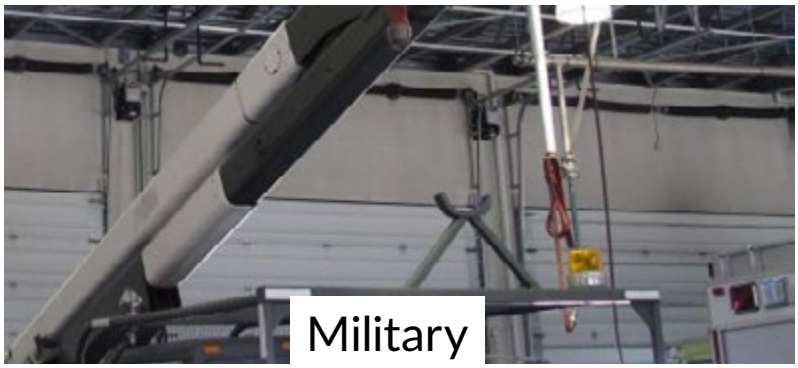



Grocery Stores

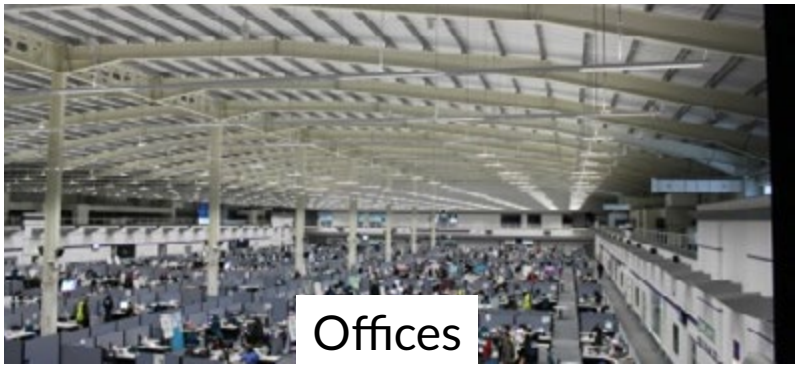
Indoor Pools


Maintenance & Workshops

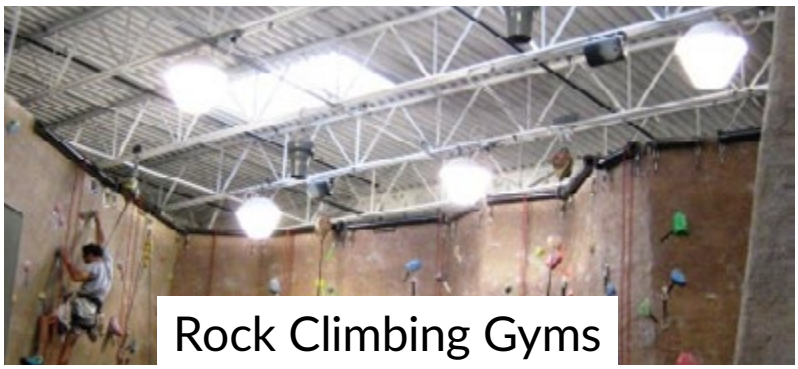
Manufacturing


Military


Museums & Galleries


Offices

Retail


Rock Climbing Gyms


Warehousing & Distribution


Worship Facilities


& Many Others!

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# CASE STUDY

## Pharmaceutical Temperature Control
## Louisville, KY

### 50x Air Pear Model 25

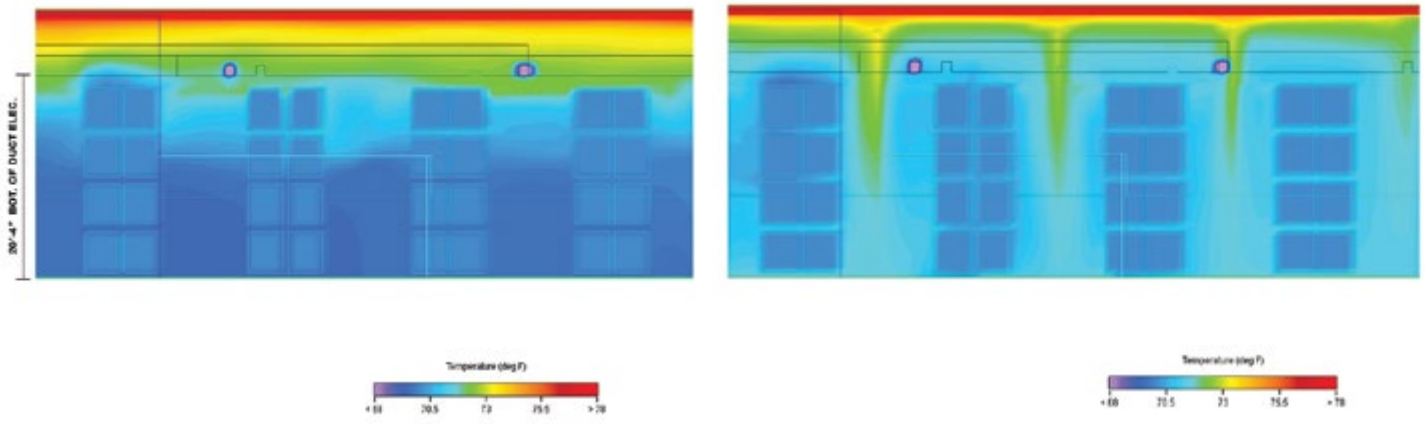
## NO MARGIN FOR ERROR

A major pharmaceutical company built a new 49,200 sq. ft. warehouse in Louisville, KY, but its HVAC installers failed to take into account the full effects of stratification on pallet storage.

When the Food and Drug Administration's temperature validation tests deemed their new HVAC system to be ineffective, exposing the top levels of racking to 73 °F air, the company faced serious logistic issues as the facility was due to open and the space was badly needed.

A senior facility engineer reached out to Airius and the leading independent CFD software company, which was responsible for the images displayed on this page, for analysis. They found the addition of Airius fans would bring the racking temperature within safe bounds.

The facility quickly agreed and the installation was a success. Michael Simpson, Mechanical Engineer for Eichleay Engineers, told Airius, "The new HVAC system has been up and running for about 18 months and since then, the temperature alarms have not shown any excursions." The facility, upper rack levels no longer in jeopardy, opened on schedule. Airius equipment is capable of destratification as well as equalizing a room to within FDA specifications.

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# CASE STUDY

## Foodie's Markets, Urban Grocery
## Boston, MA

### 15x Air Pear Model 15

## THEY HAD TO LOWER THE THERMOSTAT...TWICE!

The proprietor of Foodie's Markets, a 3-store, family-owned, grocery chain in Massachusetts, liked his first Airius installation so much that he came back for seconds.

Foodie's first installed 8 Model 15 Air Pears in 2015 in their South Boston store. Managers were so pleased with the destratification effects for customers and employees that they installed another system of 7 Model 15 fans in their Duxbury, MA store.

Even during the cold Massachusetts winter that followed, employees asked that the heat be lowered...twice! Circulating the hot air from the 14 ft. ceilings helped balance temperatures between the manager's office on the mezzanine, which was too hot, and near the checkout counters and entrances, which were too cold.

Fans installed above the open-case freezers delivered warmer air to shoppers without disrupting the cool air inside the freezers.

Keeping shoppers, employees, managers, and the store's HVAC systems happy, Airius shows once again the benefits of destratification.


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# CASE STUDY

## Alfalfa's Market, Grocer
## Boulder, CO

## 15x Air Pear Model 15

### GREEN IN THE PRODUCE AISLE

Alfalfa's Market is an organic and natural foods store, one of the earliest founded in the Boulder area, so it stands to reason that Store Director Dale Kamibayashi is no stranger to sustainability and environmental concerns.

"We feel we were losing some business in products like cheeses, the olive bar, seafood, and meats simply because chilly shoppers would get what they wanted but wouldn't take longer to browse over new food products or items not on their shopping list," Kamibayashi said. To increase customer and employee comfort, Alfalfa's installed 15 Airius units across the store.

**12 Airius Fans in Aisles** move warmer air in high ceilings to the cooler floor below to equalize temperature throughout the store.

**2 Airius Suspended Ceiling Kits** in the dairy aisles due to the store's lower ceiling.

**1 Airius with PHI** near its seafood and meat counter to reduce odors and kill bacteria, mold, and viruses.

"Airius units fit well with Alfalfa's commitment to support the local community and environment," Kamibayashi said.



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# CASE STUDY

## Sanitas Brewing
## Boulder, CO

### 3x Air Pear Model 25

## A MICRO INSTALLATION

With a lot of glass to light up the space and garage doors that open so beer drinkers can enjoy Colorado's sunny weather, Sanitas Brewing Company's taproom is the perfect spot to enjoy an innovative microbrew.

Even though the brewery is located in Boulder, a city along the scenic foothills of the Colorado Rockies where residents frequently soak in sunshine, the winter months can be chilly.

To keep customers and his staff warmer and comfortable year-round, Sanitas Brewing CEO and Co-Founder Michael Mesmic installed 3 Model 25 Air Pear fans in the ceiling of their 2,000 sq. ft. taproom.

The fans, Mesmic says, "made a significant difference, and the room has become so much more comfortable." The result, he adds, "was an immediate change. The day we installed [the fans], our heaters worked significantly less."

Installation via scissor lift took about thirty minutes per fan thanks to design choices by Airius to make fans essentially "plug-and-play."


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# CASE STUDY

## Indoor Practice Facility
## University of Colorado Boulder

## 24x Airius Designer Model 125

### A CHANCE TO BE BOULDER

The CU Boulder indoor practice facility opened in 2016 with 108,000 sq. ft. of equipment, including a full football field and six-lane track.

Used every morning of the off-season by the Colorado football team, the Buffs, and throughout the year by distance runners, sprinters, and athletes from other sports, the building is a state-of-the-art facility that refuses to settle for less than top performance.

Due to the location of the supply diffusers located halfway up the sidewalls, the facility needed a means of mixing the ceiling air with the space below. They required a fan system that would provide full coverage while operating quietly for the athletes' comfort.

Airius was able to offer a full destratification system to meet these needs with the Designer Series 125 fans at the peak of the 90 ft. tall building. Controlled wirelessly by the building's automation system, the temperature varies by no more than 3 °F from ceiling to floor and wall to wall. The color and quiet operation make the fans imperceptible to athletes below.

The next season, the No. 17 ranked Buffs went 8-1 in their conference.


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# CASE STUDY

## SportsPleX Indoor Soccer Facility
## Fairborn, OH

### 12x Airius Q Series

## EASIER THAN SCORING ON AN OPEN NET

SportsPleX, an innovative, indoor soccer facility in Fairborn, OH, created a more comfortable sporting environment with the installation of 12 Airius destratification fans.

With a busy schedule of team play ranging from four-year old to adult leagues, the business is capitalizing on the growing popularity of soccer.

But with a facility often packed with leagues and drop-in players, Vice President and General Manager Daniel Durnell says the lack of air movement created a stagnant environment at the facility: too warm in the summer, too cold in the winter.

After contacting Airius, Durnell says a sales representative offered to let him test a fan in the space before having to make a purchase decision. “He was very helpful assisting with fan recommendation and layout,” Durnell says.

Durability, low noise, and ease of installation were other factors that led to the selection of Q Series fans. The enclosed, turbine design of Airius fans also prevents damage if they’re impacted by a wayward soccer ball.


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# CASE STUDY

## Versatile Arts, Aerial Studio
## Seattle, WA

## 2x Air Pear Model 45-P4

### FLOW AND SILKS

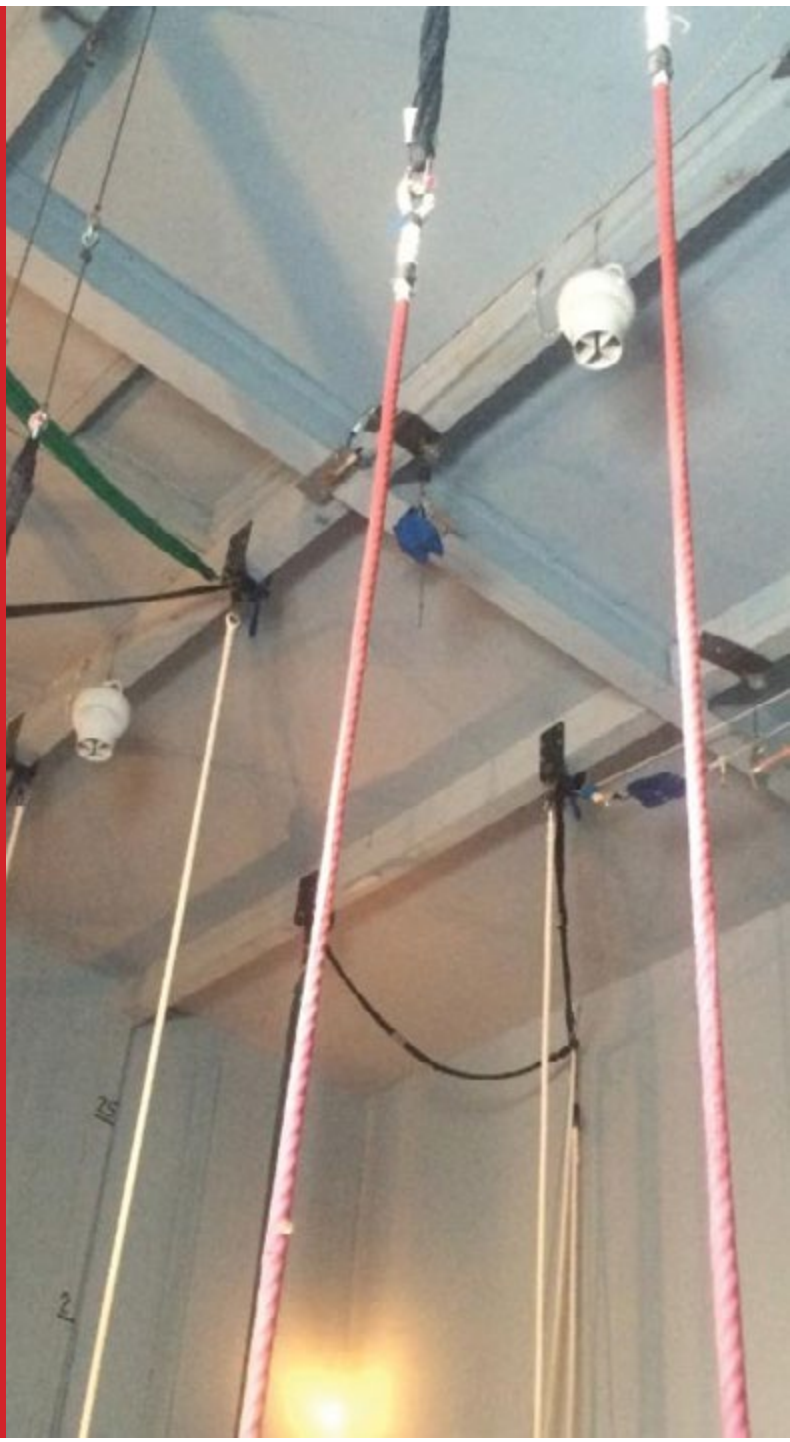
Aerial artists at Versatile Arts in Seattle are perfecting their performances in a cooler, more comfortable setting after installing Airius destratification fans.

With windows on just one wall, the 1,200 sq. ft. studio with 30 ft. ceilings suffered from poor ventilation and was “pretty stuffy in the summer, and in winter all the heat ends up at the ceiling,” according to Founder and Director Beverly Sobelman.

With a hot summer ahead, the aerial artists were looking for a low-cost way to improve the comfort of the room. Their research led them to Airius, which has been a popular choice for numerous types of gyms with high ceilings.

After reviewing the studio’s layout, Airius recommended 2 Model 45 fans, which were easily installed by professional riggers using a 30 ft. ladder. The fans circulate the hotter air trapped high in the studio, balancing the overall temperature from ceiling to floor.

“The difference has been immediate and profound,” says Sobelman, who’s often working the rigging from the ceiling level. “You can really feel the air movement under the fans. My students are delighted.”

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# CASE STUDY
## Child Care Center
## Penn State

## ARTISTS IN MOTION

The Child Care Center at Hart Woods, the first building on Penn State's campus to receive LEED Platinum certification, chose Airius fans to help create a natural ventilation system, cooling the building and classrooms, saving energy and involving children to learn about their environment.

The Center's windows open into a grove of trees, and an indoor-outdoor integration to take advantage of the wooded micro-climate was important from the start. Fans placed on the north side of the building draw cooler air in from the wooded courtyard area and exhaust at the higher, south-facing side of the building.

Select employees at the center get an email to open slider windows when conditions are favorable. Children in the classrooms see a green light and help teachers slide panels that open the windows, activating the Airius fans.

Colorful kite spinners, called "fanimations," were placed in front of some of the fans. Children work with Penn State's College of Arts to craft these fan-powered sculptures.

Airius fans lower temperatures by 5° to 10° indoors, increase ventilation, and bring children at Hart Woods closer to art and the outdoors.


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# CASE STUDY
## Van Engelen Inc.
## Bantam, CT

11x Air Pear Model 45, 5x Air Pear Model 25

## A FLOWERY RECOMMENDATION

Airius destratification fans are helping to keep warehouse temperature and humidity steady for a Connecticut-based distributor of Dutch flower bulbs.

As the busy flower bulb shipping season was underway in summer and fall, officials at Van Engelen Inc. said their installation of Airius fans was doing a “spectacular” job of moving air from their warehouse ceiling and keeping air circulating around pallet racks full of millions of flower bulbs.

“We closely monitor temperature and humidity as this is crucial for our inventory in climate-controlled containers,” said Alexander Vandenberg. “The fans help tremendously, keeping both at close to ideal levels.”

The company installed 11 Airius Model 45 fans in their warehouse, which has a 22.5 ft. ceiling. The bulb distributor also installed 5 Model 25 fans in an area with a lower ceiling.

The air circulation, Vandenberg said, is also keeping warehouse staff comfortable as they prepare shipments.


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# CASE STUDY

## Rock Lititz Rehearsal Facility
## Lititz, PA

## 12x Airius Model 100-EC

### DESTRATIFIED ROCK

Airius destratification fans make sure some of the hottest rock bands in the world are rehearsing in comfort as part of the HVAC design of the Rock Lititz Studios, a 52,000 sq. ft. production-rehearsal facility.

Operating in the lattice of steel girders and walkways designed for lighting, camera rigs, and laser props are Airius Model 100-EC fans.

The Airius fans are “the perfect solution” for destratification, says Mark Graybill, P.E. of Accu-Aire Mechanical Services Inc., the company that both designed and built the facility’s HVAC system. The fans are installed 90 ft. above the floor, and “you can feel a slight breeze” from the 100-EC, he continues.

A facility this size, the largest in the world of its type and containing specialized equipment, had unique specifications that only Airius could fulfill. Quiet operation, so as to not interfere with sound equipment, was of paramount concern. Rotating fan blades would interfere with the careful lattice of wires and steel. Inferior tube fans only reach a fraction of the distance from ceiling to floor.

Specifying Airius fans was integral to the overall HVAC design, notes Graybill.


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# CASE STUDY
## Temple Cinema
## Houlton, Maine
## 2x Airius Model 15

## AIRIUS FANS TAKE THE STAGE

Moviegoers are more comfy while enjoying first run films in the nostalgic atmosphere of historic two screen Maine theater after the installation of Airius destratification fans.

A lifelong movie lover, Charlie Fortier, purchased the Temple Cinema, built in 1918, in his home town of Houlton, Maine.

What he discovered once winter set in is that all of the baseboard hot water radiators were located in the front of the theater, and much of the generated heat was trapped behind massive beams running across the ceiling.

This left many moviegoers feeling chilly because they liked sitting in seats near the back of the halls or in the quaint balconies.

After installing fans on the bottom of each of the front beams and then angling them back, he was able to move the warm air up the aisles, and overall temperatures evened out throughout the movie house's two auditoriums.

Many Temple customers soon happily reported they were much more comfortable during shows.  Previously they often resorted to bringing blankets from home to stay warm.

For the Temple Cinema, the Air Pear Model 15, designed for ceilings of 15 to 18 feet, proved to be a highly effective air mover.

Equally important, the fan's operation created undiscernible noise levels so as to not detract from the moviegoers' enjoyment.

It is too early to tell definitively but Fortier believes that the installation will significantly reduce his overall heating costs, which in Northern Maine are substantial.


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