

## OVERVIEW GUIDE



VENTS



FANS



COOLING



HEATING





Getting the right ventilation solution decreases building temperatures and creates safer, more comfortable, and more productive work environments.

At Moffitt, we provide free, customized system assessments to ensure every facility gets the ventilation solution it needs.



Our total system approach provides you with a complete solution to best meet your ventilation needs. We find the right solution by offering:

- Free Building Evaluation
- Free Solution Design
- Advanced CFD Modeling
- Expert Installation

Moffitt product lines include:



#### **Vents**

Naturally exhausts hot, trapped air to allow for the introduction of fresh, cool air into the building.



#### **Fans**

Powerful, reliable industrial fans. Moffitt will help you find the right fans for your building.



#### **Cooling**

Lower temperatures below outdoor ambient with an evaporative cooling solution.



#### **Heating**

Warmer buildings and more consistent temperatures with make-up air & recirculation.



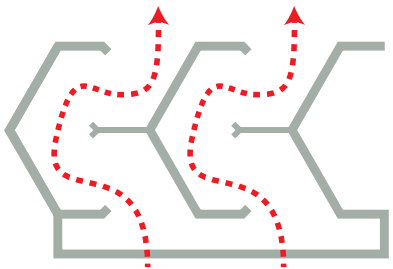
# MatrixVent™

LOW-PROFILE VENTILATOR

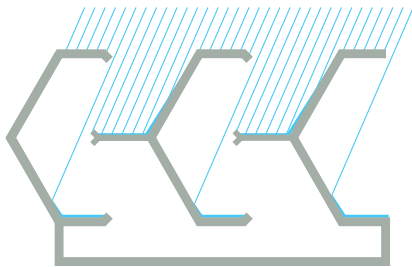
MatrixVent™ natural ventilators are low profile and light weight way. They are the ideal solution for exhausting a large volume of air without a large structural impact.

The MatrixVent provides maximum natural ventilation, ample natural day lighting, and weather protection.

- Customized length to fit any roof dimensions.
- Compatible with any roof type.
- Aluminum construction standard.
- Low profile ≈ 3 ft. tall.
- Natural day lighting.
- No moving parts, no maintenance, and no noise.
- Light weight unit means limited structural work is typically required.
- No support steel is required if the vent runs perpendicular to roof supports.
- Assemble in place (with compact shipping) or in factory (to reduce field assembly).
- Wind improves vent efficiency.

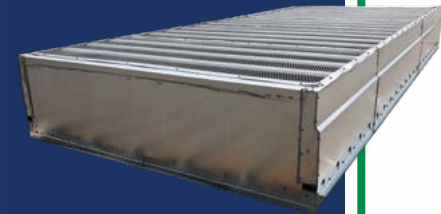


Hot air exhausts through proprietary vent blades.



Rain drains through channels, avoiding the roof opening.

| TYPE          | WIDTH | LENGTH        | HEIGHT       | WEIGHT     |
|---------------|-------|---------------|--------------|------------|
| Vent          | 10'   | 20' - 1,000'+ | 37-½"        | 4.2 lb/ft² |
| Vent + Damper |       |               | 44-¼" (open) | 7.5 lb/ft² |



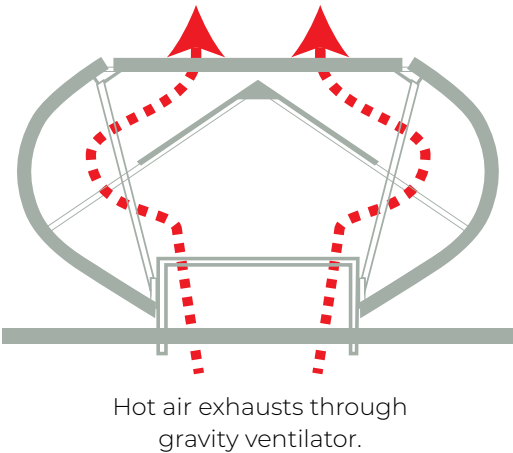


# MoffittVent™

NATURAL VENTILATOR

MoffittVent™ natural ventilators provide a highly effective way to exhaust large volumes of air from a building without letting any rain enter the building.

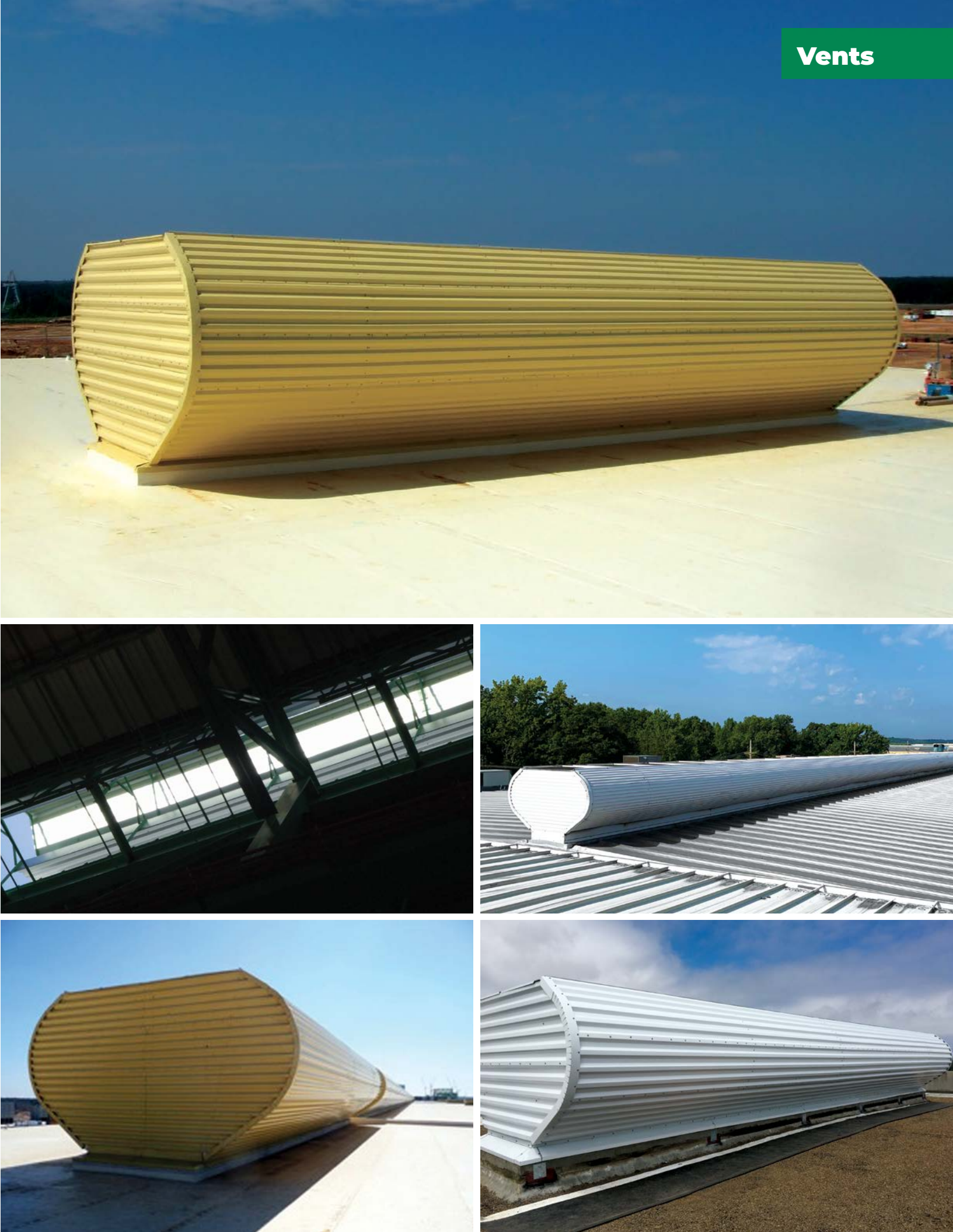
- Hot air exhausts through gravity ventilator.
- Prevents water entry at any wind velocity or rain level.
- Customization available to withstand any wind / snow loading.
- No energy consumption or operating costs for standard model. Optional motorized damper available.
- Standard model has no moving parts & no maintenance.
- Efficiency increases at higher wind velocity.
- Silent operation contributes zero sound to building.
- Can be designed to meet virtually any building length.



SPECIFICATIONS\*

| THROAT WIDTH | HEIGHT (ABOVE ROOF) | WEIGHT (WITH DAMPER) |
|--------------|---------------------|----------------------|
| 24"          | 44"                 | 69 lb/ft             |
| 36"          | 61"                 | 97 lb/ft             |
| 48"          | 74"                 | 121 lb/ft            |
| 60"          | 77"                 | 146 lb/ft            |
| 72"          | 92"                 | 199 lb/ft            |
| 96"          | 120"                | 258 lb/ft            |
| 120"         | 149"                | 362 lb/ft            |
| 144"         | 178"                | 431 lb/ft            |
| 180"         | 215"                | 643 lb/ft            |

\*Specifications vary depending on accessories





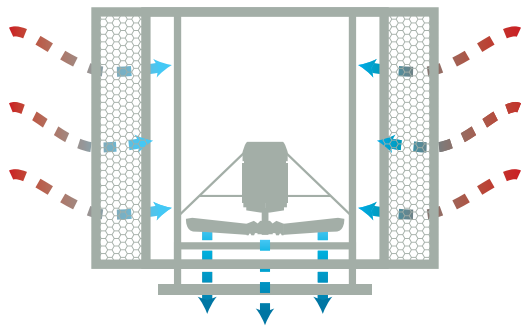
# DeltaStream™

EVAPORATIVE COOLING

DeltaStream™ evaporative cooling systems can lower air temperatures up to 30°F below ambient conditions.



- Each DeltaStream cooling unit provides up to 16,800 CFM of sub-ambient supply air.
- Heavy-duty 5 HP motor.
- Ultra hygienic design with self cleaning components to ensure a longer, cleaner product life.
- Long-lasting submersible pump.
- Blades manufactured for ideal performance and efficiency.
- Heavy gauge welded reservoir base with protective coating.
- Four intake points result in lower face velocity that leads to higher evaporative cooling efficiency.
- Remote access controls for monitoring alerts and software updates.
- Two configurations to mount on the roof (bottom discharge) or the ground (top discharge).
- Optional duct drop or diffuser.



Warm ambient air is cooled by desorption media and then blown into the workspace.

SPECIFICATIONS

|          |        |
|----------|--------|
| Length   | 77 ½"  |
| Height   | 65 ½"  |
| Width    | 77 ½"  |
| Curb Cap | 48" sq |
| CFM      | 16,800 |

|                    |         |          |
|--------------------|---------|----------|
| Downward Discharge | Dry wt. | 900 lbs  |
|                    | Wet wt. | 1100 lbs |

|                  |         |          |
|------------------|---------|----------|
| Upward Discharge | Dry wt. | 1100 lbs |
|                  | Wet wt. | 1300 lbs |

|                        |       | Outdoor Relative Humidity |      |      |      |
|------------------------|-------|---------------------------|------|------|------|
|                        |       | 20%                       | 30%  | 40%  | 50%  |
| Outdoor Temperature    | 68°F  | 54°F                      | 56°F | 59°F | 61°F |
|                        | 75°F  | 58°F                      | 61°F | 64°F | 66°F |
|                        | 82°F  | 63°F                      | 66°F | 70°F | 72°F |
|                        | 90°F  | 69°F                      | 72°F | 76°F | 80°F |
|                        | 97°F  | 73°F                      | 78°F | 81°F | 85°F |
|                        | 104°F | 78°F                      | 83°F | 87°F | 91°F |
| Discharge Temperatures |       |                           |      |      |      |





# EcoStream Series

## WALL LOUVERS

EcoStream series wall louvers introduce cool, outdoor air into the facility. Moffitt manufactures a wide variety of wall louvers to best meet each building's needs. Louvers ship in factory-assembled panels in either standard or custom sizes.

Common options include:

Blade Angles

- 35° - ES35
- 45° - ES45
- 90° - ES90

Finishes

- Polyurethane
- Powder Coat
- Custom Paint

Blade Types

- Fixed
- Adjustable
- Combination

Operator

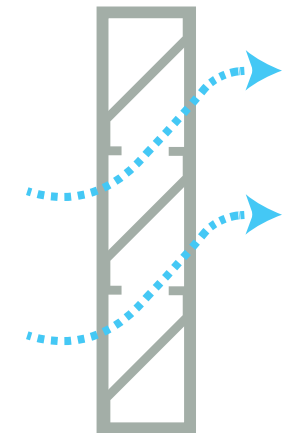
- Manual Chain Pull
- Motorized

Materials

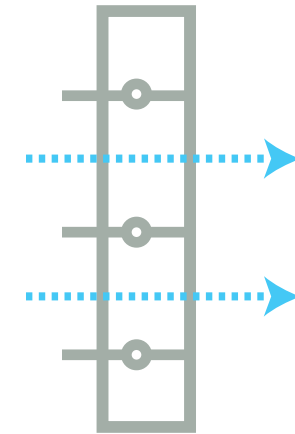
- Stainless Steel
- Galvanized Steel
- Extruded Aluminum
- Formed Aluminum

Frame Depth

- Multiple unit depths available.



45° - Outside air enters through the open louvers.



90° - Outside air enters through the open louvers.





# Model P Series

## WALL FANS

Model P series wall fans bring cool, fresh air into the building. A variety of options for propellers, drives, hoods, and accessories are available.

Model P

Direct Drive

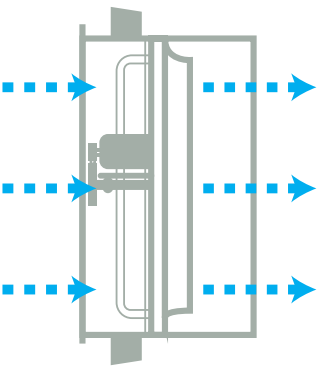
Model PB

Belt Drive

Model PATW

Belt Drive with  
Reversible Propeller

- Supply or exhaust configurations.
- Reliable direct or belt drive motors with variable pitch drives.
- High-performance propeller.
- Weather hoods prevent water entry:
  - 45° hoods for exhaust.
  - 90° hoods for intake.
- Fans can be combined in powerful, multi-unit configurations:
  - Double unit (Dualstream)
  - Quadruple unit (Quadstream)



Outside air blows into the building.

SPECIFICATIONS\*

| PROPELLER DIAMETER | OPENING | APPROX. WEIGHT |
|--------------------|---------|----------------|
| 24"                | 32" sq. | 110 lbs        |
| 30"                | 38" sq. | 150 lbs        |
| 36"                | 44" sq. | 205 lbs        |
| 42"                | 50" sq. | 270 lbs        |
| 48"                | 56" sq. | 305 lbs        |
| 54"                | 62" sq. | 400 lbs        |
| 60"                | 68" sq. | 440 lbs        |
| 72"                | 82" sq. | 850 lbs        |

\*Specifications vary depending on accessories





# Model H Series

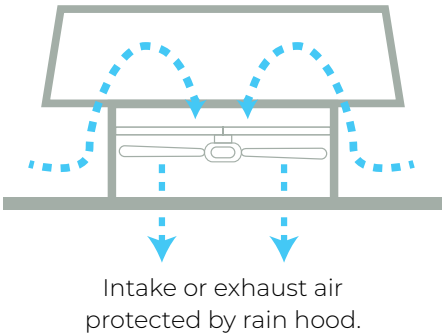
## ROOF FANS



Model H series roof fans improve air flow and make any commercial or industrial facility cooler and more comfortable. They can be used to exhaust the hot, humid, dirty air or to supply cool, fresh, clean air into the work space.

- Model H  
Direct Drive
- Model HB  
Belt Drive
- Model HFS  
Filtered Supply

- Supply or exhaust configurations.
- Reliable direct or belt drive motors with variable pitch drives.
- High-performance propeller.
- Extra durable galvanized hood.
- Protective polyurethane coating.
- Hinged hood for easy access to motor and drive for repairs.



SPECIFICATIONS\*

| PROPELLER DIAMETER | CURB CAP | APPROX. WEIGHT |
|--------------------|----------|----------------|
| 24"                | 36" sq   | 196            |
| 30"                | 42" sq   | 260            |
| 36"                | 48" sq   | 375            |
| 42"                | 54" sq   | 500            |
| 48"                | 60" sq   | 650            |
| 54"                | 66" sq   | 775            |
| 60"                | 72" sq   | 900            |
| 72"                | 86" sq   | 1500           |

\*Specifications vary depending on accessories





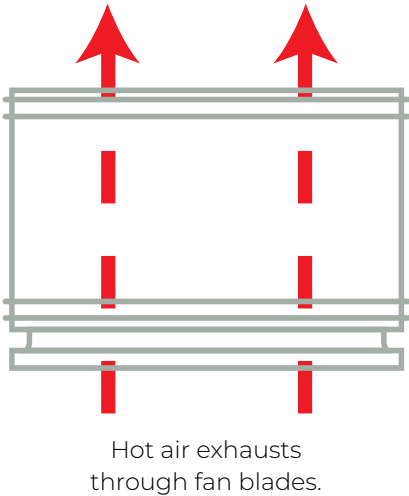
# Model V Series

## UPBLAST ROOF FANS

Model V series upblast roof fans discharge warm, humid, dirty air out of the building. Suitable for all building types.

| Model V      | Model VB   | Model VBO                            | Model VBO-HV                         |
|--------------|------------|--------------------------------------|--------------------------------------|
| Direct drive | Belt drive | Belt drive, outside of the airstream | Belt drive, heat & smoke ventilation |

- High-performance propeller.
- Reliable direct or belt drive motors with variable pitch drives.
- NEMA Premium® efficient motor.
- Protective polyurethane coating.
- Butterfly dampers provide weather protection and prevent back drafts.



### SPECIFICATIONS\*

|              | PROPELLER DIAMETER | CURB CAP | APPROX. WEIGHT |
|--------------|--------------------|----------|----------------|
| Model V / VB | 24"                | 30" sq   | 175 lbs        |
|              | 30"                | 36" sq   | 225 lbs        |
|              | 36"                | 42" sq   | 340 lbs        |
|              | 42"                | 48" sq   | 450 lbs        |
|              | 48"                | 54" sq   | 650 lbs        |
|              | 54"                | 60" sq   | 760 lbs        |
|              | 60"                | 66" sq   | 860 lbs        |
|              | PROPELLER DIAMETER | CURB CAP | APPROX. WEIGHT |
| Model VBO    | 24"                | 34" sq   | 390 lbs        |
|              | 30"                | 40" sq   | 440 lbs        |
|              | 36"                | 46" sq   | 575 lbs        |
|              | 42"                | 52" sq   | 725 lbs        |
|              | 48"                | 56" sq   | 810 lbs        |
|              | 54"                | 64" sq   | 1005 lbs       |
|              | 60"                | 68" sq   | 1150 lbs       |

\*Specifications vary depending on accessories

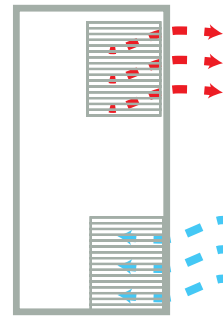


# Air Turnover

## HEATING & COOLING RECIRCULATING

The Moffitt Air Turnover Unit (ATU) recirculates air within the building to maintain more uniform temperatures. Minimal equipment is required to prevent air stagnation & stratification.

- Constant air circulation for rapid recovery.
- Quick response to temperatures deviating from a set point.
- Thoroughly distributes air throughout the building.
- High efficiency unit lowers overall operating costs.
- Outside air is not required, the unit recirculates internal air.
- Lower installation costs with base mounted air turnover units.
- Quick installation. Units only require a few hours to stack & wire. Hanging, extra support, and duct work are not required.
- Factory wired, piped, and test fired.
- Best turndown ratio, up to 60:1, for power burners.
- Assurances & testing; ETL & C-ETL listed.



Cool air is collected at the floor and recirculated to the ceiling.

Heating

Cooling





# Make-Up Air

## HEATING & COOLING FRESH AIR

The Moffitt Make-up Air Units (MAU) replace the air that exhausts from a facility to ensure proper pressure balance, steady air flow, and uniform temperatures.

These units are generally used for heating but they can also be fitted with direct expansion (DX) air conditioning or evaporative cooling systems as well.

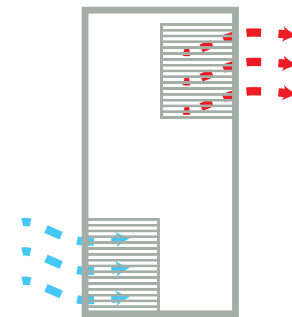
Model IDF

Direct Fired

Model HTDM82

Indirect Fired

- Direct and indirect fired units.
- Rapid response to temperatures deviating from a set-point via integral BACnet controls.
- Discharge configurations include: end discharge, down discharge, top discharge, stacked, vertical up-flow or down-flow arrangements.
- Indoor or outdoor installation.
- Best turndown ratio, up to 60:1, for power burners.
- Assurances & testing:
  - ANSI Z83.4:2015/02/01
  - ANSI Z83.25:2015
  - CSA.7:2015/02/01
  - CSA 3.19:2015 Ed.2
  - ETL & C-ETL listed



Exterior make-up air is brought in to the facility. It travels through filters, heating, and or cooling.

Heating

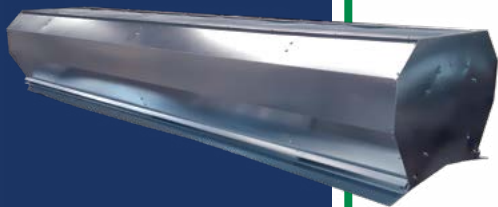
Cooling





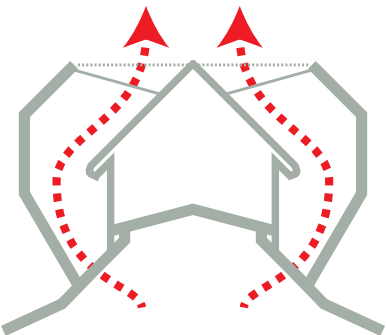
# Model RV

## RIDGE MOUNTED VENTILATOR



Model RV natural ventilators are a compact, easy to install ventilation solution. They are ideal for any facility with low-to-moderate heat that needs to reduce temperatures and improve worker comfort.

- Exhaust hot, humid air.
- Prevents moisture build-up.
- Long service life with die-formed, galvanized steel sheet metal.
- No energy costs with passive, natural ventilation.
- No maintenance costs.
- Low silhouette blends smoothly with structure.
- Fits all common roof slopes.
- Pre-assembled 10 ft. sections for easy installation & shipping. Sections can be fitted together to make a single continuous span.
- Manual or motorized dampers are available to close off airflow during cold weather.



Hot air exhausts through natural ventilator.

### SPECIFICATIONS

| Throat Width | Vent Height | Windband Width | Weight Per 10' Section |
|--------------|-------------|----------------|------------------------|
| 12"          | 18 ¼"       | 28 ¾"          | 169 lb                 |
| 18"          | 30"         | 44"            | 294 lb                 |
| 24"          | 38 ½"       | 58"            | 462 lb                 |

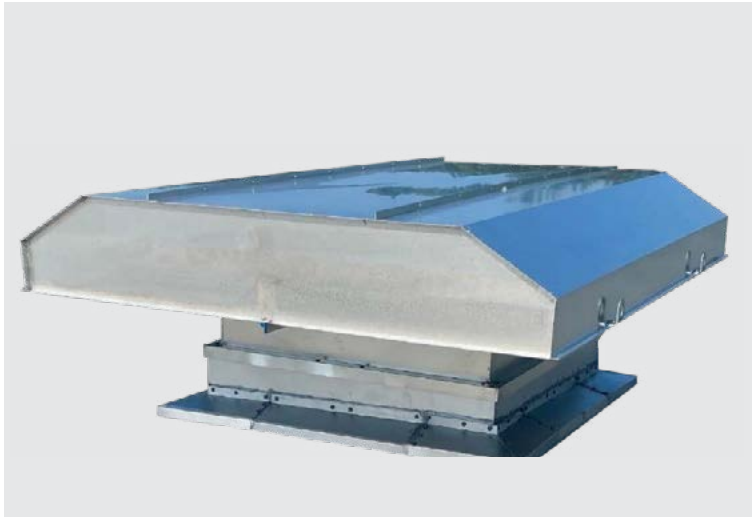




# Additional Vents & Fans



**SPUN GRAVITY VENT**  
Model RSV spun aluminum vents are suited for intake or relief applications. This low-silhouette roof mounted unit provides gravity ventilation and minimizes airflow resistance.



**HOODED GRAVITY VENT**  
Model ST hoods are for intake or relief applications. They are available in galvanized steel or aluminum, making them strong enough to handle high winds and heavy snow loads.



**HVLS FANS**  
MegaStream High Volume Low Speed (HVLS) fans are ideal for providing near ground air movement. The low speed operation means it is very quiet as well as energy efficient.



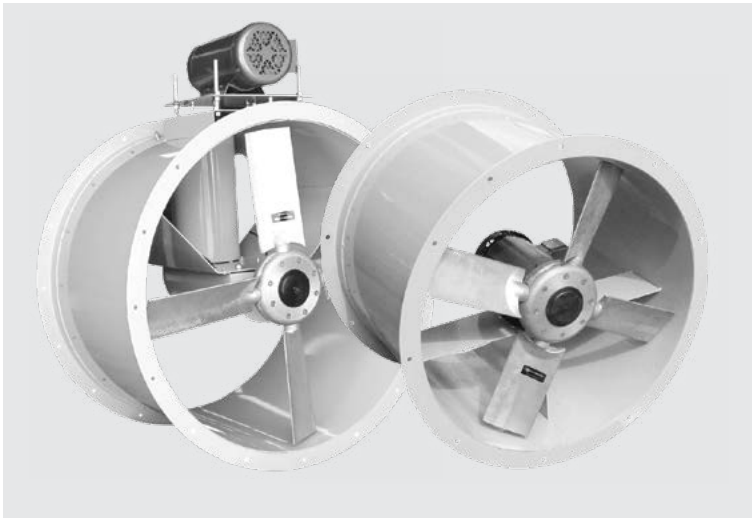
**DUAL-FLAP VENTILATOR**  
TriadVent ventilators provide three solutions in one. Day-to-day natural ventilation, ample natural sun light through the translucent flap panels, and automatic rain protection.



**CIRCULAR GRAVITY VENT**  
Model RS ventilators are the simplest gravity ventilation solution available. These vents are versatile with many mounting options and configurations.



**TURBINE VENT**  
Model RR turbine vents provide consistent warm air exhaust for smaller spaces. The spinning turbine head draws hot air out of the building. Exhausted air and ambient wind spin the turbine head.



**TUBE AXIAL FAN**  
Model TB/TD tube axial fans are designed for applications where higher volumes of air are required at lower static pressures. Available in belt or direct drive configurations.



**AIR CIRCULATOR**  
Model R fans push air at a high-velocity, deep into the facility. Also known as a "column fan," these powerful blowers are ideal for moving a significant amount of air in a small area.



# Design

Moffitt works with engineers, architects, contractors, and building owners to design the right ventilation solution for each building. Ventilation engineers evaluate a building's air flow and temperature changes to find the ideal ventilation solution.

The team can also develop detailed 3-D models for each building. Accurately mapping problem areas enables the discovery of new solutions for ventilation problems. It also helps illustrate the impact of a new ventilation system before any equipment is installed.



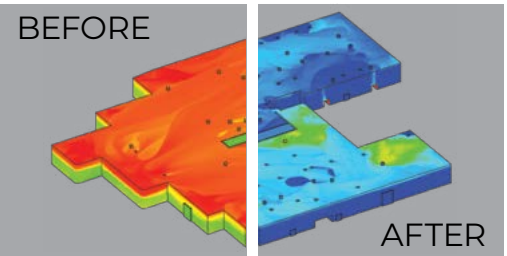
### Free Site Visit

Moffitt offers free site visits to help get a better idea of each building's ventilation needs.



### Free System Assessment & Design

Whether it's from plant drawings or a site visit, Moffitt will assess a plant's air-flow issues and develop a new ventilation solution.



### CFD Modeling

Computational Fluid Dynamics (CFD) modeling can provide the most effective ventilation solutions. It is perfect for assessing temperatures at specific locations in a facility.





# Manufacture

Moffitt designs and manufactures a variety of ventilation products including vents, fans, heaters, and cooling units. The team custom fabricates made-to-order equipment to best fit each facility's requirements. Additionally, select products are kept in stock to reduce lead times.

Moffitt has several facilities across North America. These factories have been fabricating ventilation products for decades. With years of manufacturing experience, you can rest assured that you are getting high-quality, high-performance products from Moffitt.



**Denison, TX**  
This 50,000 ft<sup>2</sup> factory in north Texas manufactures MatrixVent ventilators, DeltaStream evaporative cooling units, louvers, and more.



**Tijuana, MX / San Diego, CA**  
Fans are manufactured in Mexico, and ship from the warehouse / office in San Diego, California.



**Calgary, AB**  
This expansive facility in Canada manufactures heaters, make-up air units, and more.





# Install

Moffitt provides installation services for new construction and retrofit projects. This includes every product in this catalog, for any industry imaginable. Inspection, supervision, remote installation support, and full turn-key contracting are available. Moffitt, along with the network of Moffitt Certified Installers, is licensed to provide ventilation installation and contracting services throughout the United States.



**Install**  
Moffitt provides Installation through sub-contractor partners, supported by Moffitt training and supervision.



**Repair**  
Evaluation and repair services help restore aging and broken equipment. Moffitt repairs can return the system to like-new conditions.



**Maintenance**  
Moffitt offers routine product maintenance to keep the system running at its best year after year. Let our team handle the maintenance work.



## Creating Better Environments Through Industrial Ventilation Solutions



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