



MonsterFans for Monster Comfort





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What is a MonsterFan?

Some call these products "Big Fans," others name them "HVLS Fans," which stands for high volume, low speed. At Schwank, we name them "MonsterFans." Our fans provide Monster Comfort by moving massive air volumes at slow non-disruptive speeds [typically from 0-120 RPM].

The Monster Benefit

Our Monsters are just not ordinary monsters. The Monsters are fed with the top engineered technologies. MonsterFans Smart or Touch fan control pairs with the geared-drive motor, a Helical Inline Reducer or gearless direct-drive permanent magnet motor. Our Monsters can also interface with your building management system.

For our blades, we use anodized aluminum known from the commercial aviation industry. Therefore, our monsters deliver a strong, efficient performance.



High Comfort



High Energy Savings



Long Lifetime



Very Quiet



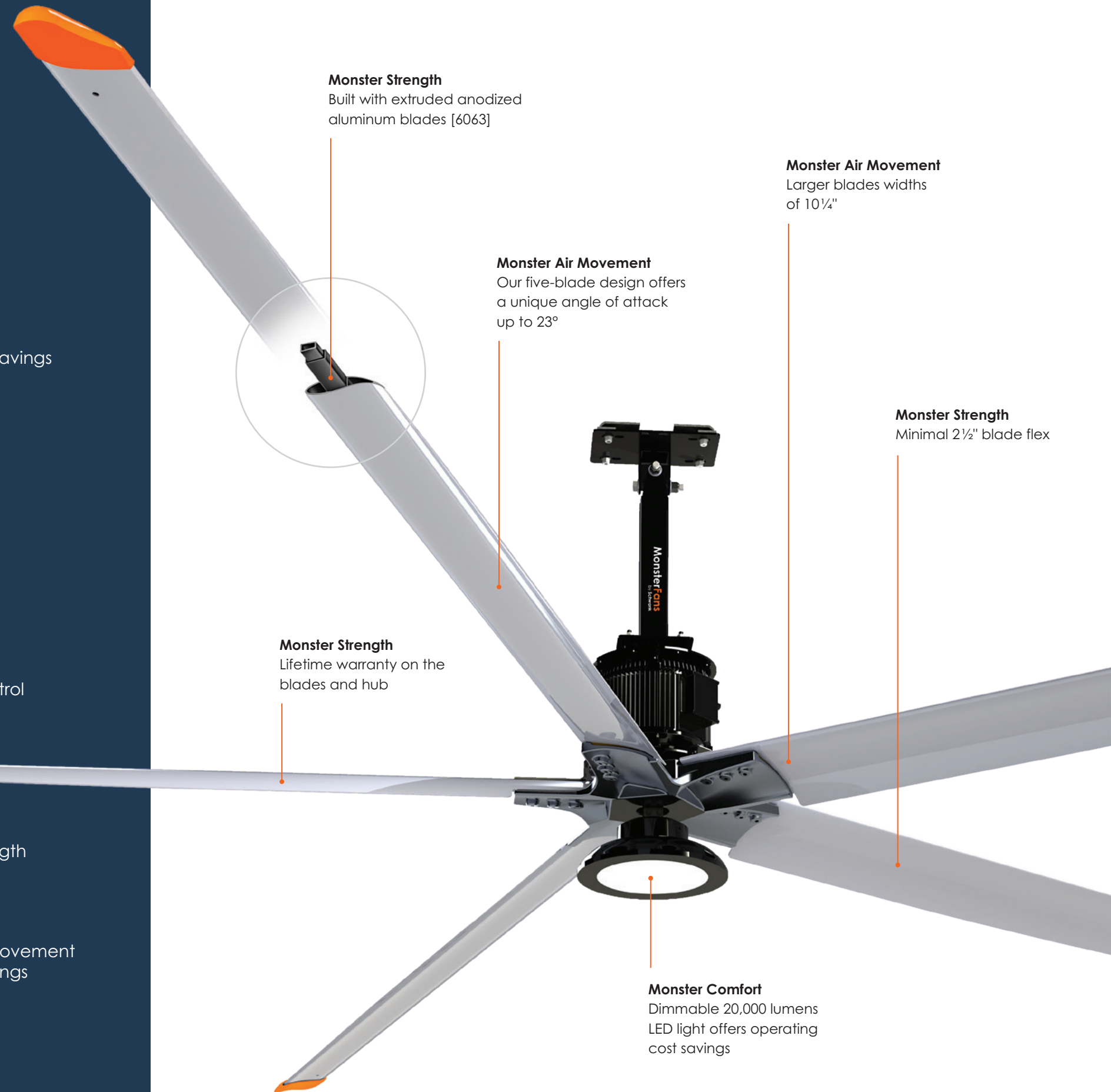
Humidity Control



Monster Strength



Monster Air Movement w/Monster Wings



Monster Strength

Built with extruded anodized aluminum blades [6063]

Monster Air Movement

Larger blades widths of 10 1/4"

Monster Air Movement

Our five-blade design offers a unique angle of attack up to 23°

Monster Strength

Minimal 2 1/2" blade flex

Monster Strength

Lifetime warranty on the blades and hub

Monster Comfort

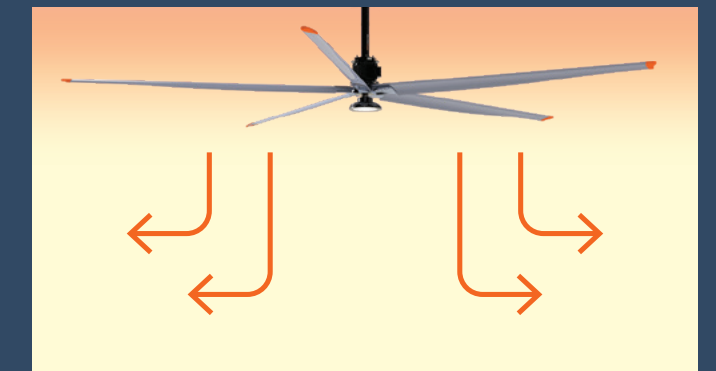
Dimmable 20,000 lumens LED light offers operating cost savings



The Monster Principle

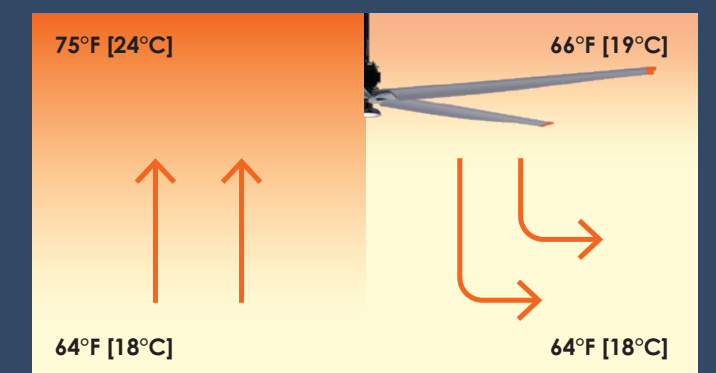
Cool in the summer

That is what our little Monsters do. Our Monsters provide a cool breeze in hot summers by moving high volumes of air at a very low non-disruptive speed [HVLS fans]. As the breeze passes over the skin, the fan can create an evaporative cooling effect of 7–10°F [3–4°C] throughout the space, creating an improved comfort level at minimal operating costs.



Cost savings in the winter

Monster comfort is our motto. You lose heat to the ceiling as warm air rises naturally. MonsterFans push the warm air down from the ceiling to the floor level where people work. If, for instance, the heating temperature is set to 65°F [18°C], your heating will work until it reaches 65°F [18°C] on the floor level. Destratify and distribute the warm air evenly throughout the building with our little monsters. Enabling your heating system to work less, and you, therefore, saving on operating costs.



Without MonsterFans
Stratification of temperature levels

With MonsterFans
Destratification due to slow air movement

MonsterFans HVLS fan product line

Built for every Monster playground



MonsterFans Direct-Drive [DD] Series

Industrial direct-drive HVLS fans for minimal maintenance



- Diameter 8–24 ft [2.4–7.3 m]
- 53–105 RPM
- Gearless direct-drive permanent magnet motor
- Unbreakable hub
- Five anodized airfoil blades
- Blades are 10¼" wide and angled up to 23° for maximum air movement
- Versatile mounting system
- Built-in 20,000 lumens LED dimmable light
- Optional building management system [BMS] integration

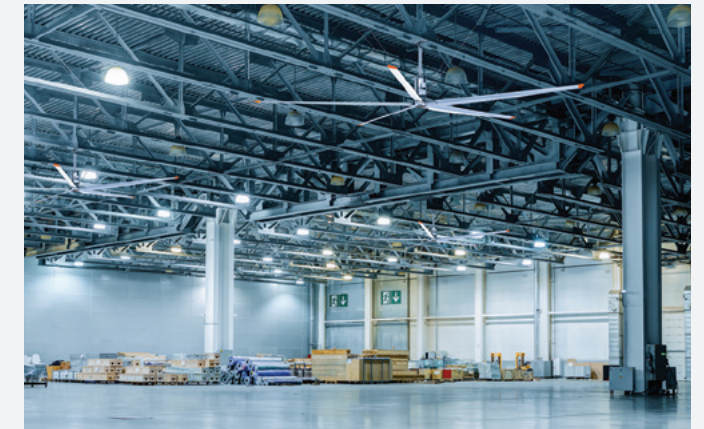


MonsterFans Geared-Drive [GD] Series

Industrial overhead HVLS fans for efficient productivity



- Diameter 8–24 ft [2.4–7.3 m]
- 53–105 RPM
- Geared-drive Helical Inline Reducer motor
- Unbreakable hub
- Five anodized airfoil blades
- Blades are 10¼" wide and angled up to 23° for maximum air movement
- Versatile mounting system
- Optional building management system [BMS] integration



MonsterFans Style Series

Commercial and hospitality HVLS fans to style your indoor/outdoor space



- Diameter 7–10 ft [2–3 m]
- 0–120 RPM
- Gearless Transverse Flux Brushless DC motor
- Integrated 1980 lumens LED dimmable light kit
- Versatile mounting system
- Optional building management system [BMS] integration
- Optional wind sensor
- Available in multiple colors to style any space





MonsterFans DD Series

Built with a gearless direct-drive permanent magnet motor providing whisper-quiet operation for sensitive applications, and a cool 6 MPH breeze for maximum affected areas up to 230 ft.

MonsterFans DD Series

Key Features



Monster Model

- Diameter 8–24 ft [2.4–7.3 m]
- 53–105 RPM
- Gearless direct-drive permanent magnet motor
- Schneider VFD drive with NEMA 4X rating
- Five-airfoil modulating trailing edge blades
- Versatile mounting system

Monster Comfort

- The whisper-quiet operation for sensitive applications
- Built-in 20,000 lumens LED light
- Optional building management system [BMS] integration
- Cooling, destratification, and humidity control options

Monster Strength

- Unbreakable hub is made with a single piece of 713 cast aluminum alloy
- 6063 extruded anodized aluminum blades
- Lifetime warranty on blades, hub, and mounting system
- 5-year warranty on motor, gearbox, and control panel

Monster Air Movement

- Blade design offers a unique angle of attack up to 23°
- Larger blade widths of 10¼"
- Minimal 2½" blade flex
- An even airflow from blade tip to hub
- Upwards of 6 MPH breeze



The Monster DNA

Model type	8 ft [2.4 m]	12 ft [3.7m]	16 ft [4.9m]	20 ft [6.1 m]	24 ft [7.3 m]
Model #	MF-DD08-XX	MF-DD12-XX	MF-DD16-XX	MF-DD20-XX	MF-DD24-XX
Input power	208–240 VAC, 50/60 Hz, 1 Φ; 208–240 VAC/400–480 VAC, 50/60 Hz, 3 Φ				
Diameter	8 ft [2.4 m]	12 ft [3.7 m]	16 ft [4.9 m]	20 ft [6.1 m]	24 ft [7.3 m]
Weight	220 lbs [99 kgs]	245 lbs [111 kgs]	275 lbs [125 kgs]	320 lbs [145 kgs]	347 lbs [157 kgs]
Airflow	59,494 CFM	70,424 CFM	127,033 CFM	176,200 CFM	315,026 CFM
Max. rotational speed	105 RPM	105 RPM	80 RPM	63 RPM	53 RPM
Max. affected area	60 ft [18 m]	80 ft [24 m]	140 ft [43 m]	200 ft [61 m]	230 ft [70 m]
Power usage	782 W [5 amps at 230 V]	782 W [5 amps at 230 V]	939 W [5 amps at 230 V]	1460 W [5 amps at 230 V]	1486 W [5 amps at 230 V]
Motor power	2 HP [1.5 kW]	2HP [1.5 kW]	2HP [1.5 kW]	2HP [1.5 kW]	2HP [1.5 kW]
Motor	Gearless direct-drive permanent magnet motor				
Noise level	45 dBA				
Max. ceiling slope	18.5°				
Blades	5 • 6063 Extruded anodized aluminum • High impact polystyrene blade end caps				
Mounting	Versatile universal mounting system is suited for; bar joists, beams, purlins, and wood frames				
Control	• Schneider VFD drive with NEMA 4X rating • Optional controls include Simple fan control, Smart fan control and/or Touch fan control • Building automation systems integrations options with BACnet and Modbus compatibility				
Warranty	• Lifetime warranty on blades, hub, and mounting system • 5-year warranty on motor, gearbox, and control panel				
Certification	UL Standard, and CSA Standard				
Options	• Optional wind sensor • Optional mounting extension kits				



MonsterFans GD Series

The GD Series fan offers diameters ranging from 8–24 ft [2.4–7.3 m] and delivers maximum speeds of 53–105 RPM. These specific HVLS ceiling fans have 5 extruded anodized aluminum blades [6063] to provide Monster Air Movement.

MonsterFans GD Series

Key Features



Monster Model

- Diameter 8–24 ft [2.4–7.3 m]
- 53–105 RPM
- Geared Helical Inline Reducer motor with protection against dust, water, and vapors for indoor or outdoor use
- Five-airfoil modulating trailing edge blades
- Schneider VFD drive with NEMA 4X rating
- Versatile mounting system

Monster Comfort

- The whisper-quiet operation for sensitive applications
- Optional building management system [BMS] integration
- Cooling, destratification, and humidity control options
- Wind sensor available

Monster Strength

- Unbreakable hub made with a single piece of 713 cast aluminum alloy
- 6063 extruded anodized aluminum blades
- Minimal maintenance with recommended inspection every 20,000 hours
- Lifetime warranty on blades, hub, and mounting system
- 5-year warranty on motor, gearbox, and control panel

Monster Air Movement

- Blade design offers a unique angle of attack up to 23°
- Larger blade widths of 10¼"
- Minimal 2½" blade flex
- An even airflow from blade tip to hub
- Upwards of 6 MPH breeze



The Monster DNA

Model type	8 ft [2.4m]	12 ft [3.7m]	16 ft [4.9m]	20 ft [6.1 m]	24 ft [7.3 m]
Model #	MF-GD08-XX	MF-GD12-XX	MF-GD16-XX	MF-GD20-XX	MF-GD24-XX
Input power	208–240 VAC, 50/60 Hz, 1 Φ; 208–240 VAC/400–480 VAC/575–600 VAC, 50/60 Hz, 3 Φ				
Diameter	8 ft [2.4m]	12 ft [3.7 m]	16 ft [4.9 m]	20 ft [6.1 m]	24 ft [7.3 m]
Weight	220 lbs [128.8 kgs]	245 lbs [111 kgs]	275 lbs [125 kgs]	320 lbs [145 kgs]	347 lbs [157 kgs]
Airflow	59,494 CFM	70,424 CFM	127,033 CFM	176,200 CFM	315,026 CFM
Max. rotational speed	105 RPM	105 RPM	80 RPM	63 RPM	53 RPM
Max. affected area	60 ft [18 m]	80 ft [24 m]	140 ft [43 m]	200 ft [61 m]	230 ft [70 m]
Power usage	782 W [3 amps at 230 V]	782 W [3 amps at 230 V]	939 W [3.6 amps at 230 V]	1460 W [5.6 amps at 230 V]	1486 W [5.7 amps at 230 V]
Motor power	1HP [0.75 kW]	1HP [0.75 kW]	1.5HP [1.1 kW]	2HP [1.5 kW]	2HP [1.5 kW]
Torque	39 ft-lbs [53 Nm]	39 ft-lbs [53 Nm]	104 ft-lbs [141 Nm]	160 ft-lbs [217 Nm]	248 ft-lbs [142 Nm]
Thrust	28 lbs [125 N]	28 lbs [125 N]	52 lbs [231 N]	63 lbs [280 N]	142 lbs [632 N]
Noise level	62.5 dBA	62.5 dBA	62.7 dBA	63.4 dBA	63.4 dBA
Motor	Helical Inline Reducer				
Max. ceiling slope	18.5°				
Blades	5 <ul style="list-style-type: none"> • 6063 Extruded anodized aluminum • High impact polystyrene blade end caps 				
Mounting	Versatile universal mounting system included with fan is suited for; bar joists, beams, purlins, and wood frames				
Control	<ul style="list-style-type: none"> • Schneider VFD drive with NEMA 4X rating • Optional controls include Smart fan control and/or Touch fan control • Building automation systems integrations options 				
Warranty	<ul style="list-style-type: none"> • Lifetime warranty on blades, hub, and mounting system • 5-year warranty on motor, gearbox, and control panel 				
Certification	UL Standard, and CSA Standard				
Options	<ul style="list-style-type: none"> • Optional wind sensor • Optional mounting extension kits 				



MonsterFans Style Series

MonsterFans Style Series models range from 7–10 ft [2.1–3 m] diameter HVLS fan, and works with speeds of 0–120 RPM. This MonsterFan can be used both indoors and outdoors, with options to individualize your fan with one of our color finishes to style any space.

MonsterFans Style Series

Key Features



Monster Model

- Diameter 7–10 ft [2–3 m]
- 0–120 RPM
- Lightweight Gearless Transverse Flux Brushless DC motor [smart voltage]
- Individualize your fan with one of our color finishes
- Standard Simple control included
- Versatile “automatic swivel” mounting system included with the fan
- Certified by UL, and CSA

Monster Comfort

- The whisper-quiet operation for sensitive applications
- Advanced onboard smart voltage controls for cooling, destratification, and humidity
- Optional building management system [BMS] integration
- Integrated 1980 lumens LED dimmable light kit

Monster Strength

- Zinc-coated steel mounting plate injection-molded fiber-filled polypropylene blade design provides a lightweight yet industrial-strength performance
- Includes a superior harnessing system to maintain an integral safety status
- Lifetime warranty on blades, hub, and mounting system
- 3-year warranty on motor, and control panel

Monster Air Movement

- Five-airfoils with varying angle blade design ranging from 6° [tip] to 14° at its greatest point
- An even airflow from blade tip to hub
- Upwards of 5 MPH breeze

Standard color finishes

- Slate
- Radiance
- Cobalt
- Alabaster
- Sterling
- Onyx

The Monster DNA

Model type	7 ft	8 ft	9 ft	10 ft
Model #	MF-ST07-GY	MF-ST08-GY	MF-ST09-GY	MF-ST10-GY
Input power	104–277 V [50/60 Hz]			
Diameter	7 ft [2.1 m]	8 ft [2.4 m]	9 ft [2.7 m]	10 ft [3 m]
Weight	70 lbs [31.8 kgs]	75 lbs [34.0 kgs]	80 lbs [36.3 kgs]	85 lbs [38.5 kgs]
Airflow	27,000 CFM	35,000 CFM	39,000 CFM	45,000 CFM
Max. affected area	1,850 sq ft [172 m ²]	2,100 sq ft [195 m ²]	2,500 sq ft [232 m ²]	2,800 sq ft [260 m ²]
Power usage	264 W [2.2 amps at 120 V]			
Max. rotational speed	0–120 RPM			
Torque	52 lbs			
Noise level	39 dBA			
Motor	Transverse Flux Brushless DC Motor			
Motor efficiency	92%			
Max. ceiling slope	18.5°			
Blades	5			
Mounting	Versatile universal mounting system included with fan is suited for; bar joists, beams, purlins, and wood frames			
Control	Includes standard keypad and LCD screen			
Warranty	<ul style="list-style-type: none"> • Lifetime warranty on blades, hub, and mounting system • 3-year warranty on motor, and control panel 			
Standard color finish	Slate, Radiance, Cobalt, Alabaster, Sterling, Onyx			
Certification	UL Standard, and CSA Standard			
Options	<ul style="list-style-type: none"> • Optional wind sensor • Optional mounting extension kits 			

Monster Controls

MonsterFans Smart Control

- For MonsterFans DD, GD, and Style Series fans
- Touch screen operation
- Automated flexible fan control for single or multiple fans [1–10 fans]
- Continually measure temperature and humidity, adjusting fan speed accordingly
- Easy to install and monitor the performance of motor and drive
- Handles lighting control with dimming feature



MonsterFans Touch Control

- For MonsterFans DD, GD, and Style Series fans
- Controls each fan independently and can control from 1–20 fans
- CAT-5 daisy chain connections
- Intuitive touch screen operation
- Remote diagnostics
- Handles lighting control with dimming feature



MonsterFans Link Control

- For MonsterFans DD, GD, and Style Series fans when paired with the Touch control
- Single point fan control and controls up to 240+ fans
- Works in conjunction with building automation system [BMS] with BACnet and Modbus compatibility



MonsterFans Wind Sensor

- For MonsterFans DD, GD, and Style Series fans
- Add for outdoor operation or high wind conditions
- Automatic fan shut down in excessive windy conditions [such as an outdoor patio or an airplane hanger]





Smart climate comfort solutions for your space

Experience creates security

The name **Schwank** has been synonymous with high-quality and economical commercial/industrial infrared heating systems for decades, and we've helped thousands of businesses just like yours. As an industry leader Schwank is in a prime position to expand into the cooling and air movement side of the HVAC market to offer smart climate comfort solutions to endure varying demanding conditions.

We stand by our claim to deliver products and services of the highest quality, performance, and efficiency with ease of installation always top of mind. With Schwank, you rely on a premium trusted manufacturer.

Therefore, the combination of Schwank infrared heating systems paired together with SchwankAir curtains, and our new large overhead HVLS fans MonsterFans, will deliver monster comfort with monster performance.

Your Schwank smart climate comfort solution

- 1 Infrared Radiant Heating
- 2 SchwankAir Curtains
- 3 MonsterFans HVLS Fans

“The real world is where the Monsters are”

Rick Riordan

Author of Percy Jackson

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Featuring MonsterFans Direct-Drive [DD] Series