

Venturi High Flow Series Fans

The Venturi High Flow Series fans, HF-12 and HF-14, are optimized for low-restriction airflow environments, making them an excellent choice for computer case fans, or other low-restriction usage scenarios.

Designed with a variety of performance-increasing and noise-reducing features, these fans can move an amazing amount of air compared to other fans at the same, minimal noise level.

The HF-14 comes with two sets of solid vibration-dampening rubber corners: one for standard 140mm fan hole spacing (125mm) and one compatible with the standard 120mm hole spacing (105mm). The Venturi High Flow Series fans are ideal for those looking for a perfect balance between high performance and low noise built from sturdy, high quality materials.

High precision airflow. High level performance.

Key Features

- Featuring true FDB-bearings, providing silent operation coupled with a long lifespan
- Equipped with a counter-balancing magnet in the hub that reduces the axial tension on the bearing, further protecting the longevity of the bearing
- Dense, sturdy construction, made from high-grade glass fiber reinforced thermoplastic polymer with fan geometry
 that is optimized for a good balance between static pressure and maximum airflow, resulting in good performance in
 all usage scenarios
- Aerodynamically shaped thin stator struts (including wire strut), mimicking the design commonly found on airplane wings, delivering correct angles allowing for air to easily pass through reducing noise and unwanted turbulence.
- Stator struts are angled perpendicular to the blades, helping to reduce noise commonly emitted when the blades
 pass the struts. In effect, minimal noise that may be emitted will be constant and therefore almost inaudible to the
 ear
- Strategically placed notches near the fan hub on the trailing edge of the blades, further reducing and diffusing humming noise produced when the blades pass the stator struts
- Includes a "trip wire" on the rear side of the blades, near the leading edge. The trip wire technology, also commonly found in airplane wing designs, introduces a micro-turbulent layer that helps to combat the elements that negatively affect performance. The presence of the trip wire overall provides a more efficient and quiet fan environment.
- Delivers high precision due to high grade materials used, permitting the distance between the blades and frame to be as small as 1.2mm, contributing to a higher performance fan
- · Featuring a powerful motor to maintain a reliable speed
- Comes with a low-speed adapter, for reducing the speed without the use of a fan controller
- Includes vibration-dampening corners, from solid high-quality synthetic rubber on the fans
- 140mm fans come with an additional set of vibration-dampening corners are included that lends compatibility with 120mm fan mounts (105mm screw spacing). This enables the use of 140mm fans on many CPU coolers.
- Screws pass through the rubber only, not through plastic, therefore eliminating the chance of noise derived from rattling when in use
- · Available in 120mm and 140mm fan sizes





Venturi High Pressure Series Fans

The Venturi High Pressure Series PWM fans, HP-12 and HP-14, are optimized for high-restriction airflow scenarios, making them an excellent choice for usage on large heatsinks, on radiators, or in other highly restrictive scenarios.

Designed with a variety of performance-increasing and noise-reducing features, these fans can move an amazing amount of air through restricted environments compared to other fans at the same, minimal noise level.

The HP-14 comes with two sets of solid vibration-dampening rubber corners: one for standard 140mm fan hole spacing (125mm) and one compatible with the standard 120mm hole spacing (105mm). The Venturi High Pressure Series PWM fans are ideal for those looking for a perfect balance between high performance and low noise built from sturdy, high quality materials.

High precision airflow. High level performance.

Key Features

- Featuring true FDB-bearings, providing silent operation coupled with a long lifespan
- Equipped with a counter-pull magnet, that reduces the axial tension on the bearing
- Optimized fan geometry as a high pressure fan, delivering high performance results in high restriction usage scenarios, such as in use with large heatsinks or water cooling radiators.
- Dense, sturdy construction, made from high-grade glass fiber reinforced thermoplastic polymer
- Featuring PWM control with a very wide speed range, starting at only 400RPM (400 +/- 100 RPM), ideal for CPU heatsinks or radiators, where the motherboard can control the fan speed based on the CPU temperature.
- Aerodynamically shaped thin stator struts (including wire strut), mimicking the design commonly found on airplane wings, delivering correct angles allowing for air to easily pass through reducing noise and unwanted turbulence.
- Stator struts are angled perpendicular to the blades, helping to reduce noise commonly emitted when the blades pass the struts. In effect, minimal noise that may be emitted will be constant and therefore almost inaudible to the ear.
- Strategically placed notches near the fan hub on the trailing edge of the blades, further reducing and diffusing humming noise produced when the blades pass the stator struts
- Includes a "trip wire" on the rear side of the blades, near the leading edge. The trip wire technology, also commonly found in airplane wing designs, introduces a micro-turbulent layer that helps to combat the elements that negatively affect performance. The presence of the trip wire overall provides a more efficient and quiet fan environment.
- Delivers high precision due to high grade materials used, permitting the distance between the blades and frame to be as small as 1.2mm, contributing to a higher performance fan
- Featuring a powerful motor to maintain a reliable speed
- Comes with a 1->2 PWM signal splitter wire, for connecting additional fans to a single PWM header on your motherboard or PWM fan controller
- Including vibration-dampening corners, from solid high-quality synthetic rubber on the fans
- 140mm fans come with an additional set of vibration-dampening corners are included that lends compatibility with 120mm fan mounts (105mm screw spacing). This enables the use of 140mm fans on many CPU coolers.
- Screws pass through the rubber only, not through plastic, therefore eliminating the chance of noise derived from rattling when in use
- Available in 120mm and 140mm fan sizes





General	l Specifi	ications

FAN	HF-12	HP-12 PWM	HF-14	HP-14 PWM
Size (mm)	· 120*120*25	· 120*120*25	· 140*140*25	• 140*140*25
Colours available	Black blades, black corners, dark grey ("Gunmetal") frame	Black blades, black corners, dark grey ("Gunmetal") frame	Black blades, black corners, dark grey ("Gunmetal") frame	corners, dark grey
Screw hold pattern (mm)	 105*105 	• 105*105	• 125*125, 105*105	• 125*125, 105*105
Connector	3-pin fan header	4-pin fan header	3-pin fan header	4-pin fan header
Bearing	• FDB			
Number of blades	• 9	• 7	• 11	• 7
Rotational speed	• 1400	• 1800	• 1200	• 1500
Accoustical noise (dB (A))	• 25.3	• 31.7	• 26.5	• 30.1
Maximum air flow (CFM)	• 83.4	• 61.4	• 118.2	• 78.1
Maximum air flow (m3/h)	• 141.7	• 104.3	• 200.8	• 132.7
Maximum pressure (mm H2O)	• 1.22	• 2.3	• 0.95	• 1.94
Actual input power (W)	• 1.3	• 1.0	• 2.2	• 1.4
Maximum rated input current (A)	• 0.05	• 0.05	• 0.06	• 0.06
Nominal input voltage (V)	• 12			
Minimum startup voltage (V)	• 4	• 6	• 4	• 7
Low (0-20%) PWM speed		• 400 RPM		• 400 RPM
Low PWM Static pressure		• 0.45 mm H2O		• 0.54 mm H2O
Low PWM Air flow		• 15.4 CFM • 26.2 m3/h		• 24.0 CFM • 40.8 m3/h
Low PWM Noise level		• < 10 dB (A)		• < 10 dB (A)
Low speed adapter speed	• 1100 RPM		• 850 RPM	
Low speed adapter Static pressure	• 0.89 mm H2O		• 0.59 mm H2O	
Low speed adapter Air flow	• 65.8 CFM • 111.8 m3/h		• 78.5 CFM • 133.4 m3/h	
Low speed adapter Noise level	• 19.0 dB (A)		• 18.3 dB (A)	
MTBF (hours)	• 150,000	• 150,000	• 150,000	• 150,000
Unit weight (g)	• 169	• 179	• 202	• 210
Package weight (g)	• 215	• 225	• 260	• 270
Cable length (mm)	• 500	• 500	• 500	• 500
Cable type	Braided all-black ribbon wire	Braided all-black ribbon wire	Braided all-black ribbon wire	Braided all-black ribbon wire
Package dimensions (mm), including hanging tab	• 180*122*30	• 180*122*30	• 200*142*30	• 200*142*30
Package dimensions (mm), excluding hanging tab	• 147*122*30	• 147*122*30	• 167*142*30	• 167*142*30



Order Information

Description	Art. Number	EAN Code	UPC Code
Fractal Design Venturi HF-12	FD-FAN-VENT-HF12-BK	7350041083337	817301013338
Fractal Design Venturi HP-12 PWM	FD-FAN-VENT-HP12-PWM-BK	7350041083344	817301013345
Fractal Design Venturi HF-14	FD-FAN-VENT-HF14-BK	7350041083351	817301013352
Fractal Design Venturi HP-14 PWM	FD-FAN-VENT-HP14-PWM-BK	7350041083368	817301013369

Package contents

- · Venturi Series fan
- Screw pack with 4 metal screws
- [HF models] Low speed adapter
- [HP models] 1->2 PWM signal splitter cable
- [140 mm models] 4 additional rubber corners, with 105mm hole pattern

