



# Fractal Venturi HP12 120mm PWM Case Fan - Black

\$18.99

## Product Images



## Short Description

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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.

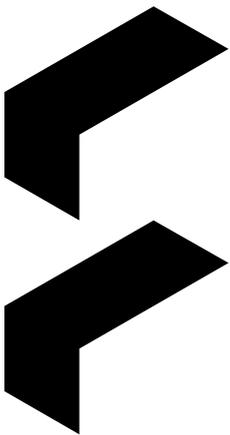
## Description

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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.



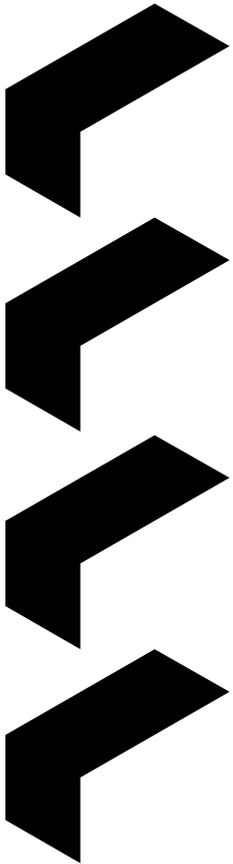
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## Features

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- Featuring true FDB-bearings, providing silent operation coupled with a long lifespan
- Equipped with a counter-balanced magnet that reduces the axial tension on the bearing
- Features integrated vibration-dampening corners, made from solid high-quality synthetic rubber
- Dense, sturdy construction, made from high grade glass fiber reinforced thermoplastic polymer
- Fan geometry is optimized for high pressure, delivering high performance results in high restriction usage scenarios, such as in use with large dense heatsinks or water cooling radiators.
- 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 reduce noise and unwanted turbulence.

- Strategically placed notches on the blades further reduce and diffuse any humming noise produced when the blades pass the stator struts
- The trip wire technology introduces a micro-turbulent layer that combats elements that negatively affect performance, resulting in quieter operation
- Comes with a PWM Y-cable, for connecting additional fans to a single PWM header on your motherboard or PWM fan controller
- 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.
- Available in 120mm and 140mm fan sizes



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## Specifications

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Fan	HF-12	HP-12 PWM	HF-14	HP-14 PWM
Size [mm]	120*120*25mm	120*120*25mm	140*140*25mm	140*140*25mm
Colors 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	Black blades, black corners, dark grey ("Gunmetal") frame
Screw hole pattern	105*105mm	105*105mm	125*125mm 105*105mm	125*125mm 105*105mm

Connector	3-pin fan header	4-pin fan header	3-pin fan header	4-pin fan header
Bearing	FDB	FDB	FDB	FDB
Number of blades	9	7	11	7
Rotational speed [RPM]	1400	1800	1200	1500
Acoustical 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 [m <sup>3</sup> /h]	141.7	104.3	200.8	132.7
Maximum pressure [mm H <sub>2</sub> O]	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]	0.2	0.2	0.3	0.2
Nominal input voltage [V]	12V	12V	12V	12V
Minimum startup voltage [V]	4V	6V	4V	7V
Low (0-20%) PWM speed		400 RPM		400 RPM
Low PWM Static pressure		0.45 mm H <sub>2</sub> O		0.54 mm H <sub>2</sub> O
Low PWM Air flow		15.4 CFM 26.2 m <sup>3</sup> /h		24.0 CFM 40.8 m <sup>3</sup> /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 H <sub>2</sub> O		0.59 mm H <sub>2</sub> O	

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			
Packaging dimensions [mm] ( Including hanging tab)	180*122*30	180*122*30	200*142*30	200*142*30
Packaging dimensions [mm] (Excluding hanging tab )	147*122*30	147*122*30	167*142*30	167*142*30

### 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

## Additional Information

Brand	Fractal Design
SKU	FD-FAN-VENT-HP12-PWM-BK
Weight	0.6000
Color	Black
Fan Dimensions	120mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	12 VDC
Fan RPM	1800
Fan CFM	61
Fan Noise (dB)	32
Vendor SKU/EAN	817301013345

### Internet Reviews



The fan is well built (please note that I can't test for long term reliability given timing constraints), relatively quiet and well performing enough to be one of the best radiator optimized fans on the market- at least with medium airflow restriction radiators (or heatsinks, for that matter), has a near universally appealing color scheme, sleeved fan cable that matches the fan color and again goes well with just about any build and priced lower than other high end fans.



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