

## Zalman ZM-F3(SF) computer cooling system Computer case Fan 12 cm Black

**Brand :** Zalman

**Product code:** ZM-F3(SF)

**Product name :** ZM-F3(SF)



- Silent Case Fan
- 120mm Fan
- Shark Fin Blade
- Sleeve Bearing
- 1700rpm  $\pm$  15% - 2800rpm  $\pm$  10%"
- 120mm Ultra Quiet Fan, 1200rpm, 20 - 23dBA, 12V

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### Long Life Bearing (EBR)

Long Life Bearing applied, minimizing noise and inflow of the dust For longer life cycle.

### Shark fin blade design

Optimized for maximum airflow, Shark`s Fin blade greatly reduces the turbulence caused by fan rotation, thus decreasing the noise and vibration while increasing the airflow.

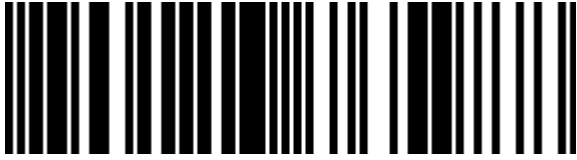
### Minimized noise and vibration

Minimized noise and vibration through lowest rpm. Suitable for silent system environment.

### Silicone pin provided

Silicone pin absorbs the vibration between the fan and the case allowing a quiet work environment.  
Zalman ZM-F3(SF). Type: Fan, Fan diameter: 12 cm, Rotational speed (max): 1200 RPM, Noise level (low speed): 20 dB, Noise level (high speed): 23 dB, Bearing type: Sleeve bearing. Voltage: 12 V. Width: 120 mm, Depth: 120 mm, Height: 25 mm. Product colour: Black

Performance		Design	
Suitable location *	Computer case	Product colour *	Black
Type *	Fan	Material	Plastic
Fan diameter	12 cm	Number of fans	1 fan(s)
Supported processor sockets	Not supported	<b>Power</b>	
Compatible processor series	Not supported	Voltage	12 V
Rotational speed (max)	1200 RPM	<b>Weight &amp; dimensions</b>	
Noise level (low speed)	20 dB	Width	120 mm
Noise level (high speed)	23 dB	Depth	120 mm
Bearing type	Sleeve bearing	Height	25 mm
Mean time between failures (MTBF)	50000 h	Weight	125 g
		<b>Technical details</b>	
		Bearing technology	Long Life Bearing



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