

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

Brand : Zalman

Product code: ZM-F3 FDB(SF)

Product name : ZM-F3 FDB(SF)

120mm Ultra Quiet Fan, 1200rpm, 20 - 23dBA, 12V, Black/Transparent

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Fluid dynamic bearing (FDB)

FDB (Fluid Dynamic Bearing) structure generates high pressure oil layer on micro channel's intersecting point, which prevents friction between the fan's shaft and bearing, thus resulting in maximum fan lifespan (150,000hrs) with minimum noise.

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.

Silicone pin provided

Silicone pin absorbs the vibration between the fan and the case allowing a quiet work environment. Zalman ZM-F3 FDB(SF). Type: Fan, Fan diameter: 12 cm, Rotational speed (max): 1200 RPM, Bearing type: Fluid Dynamic Bearing (FDB). Voltage: 12 V. Width: 120 mm, Depth: 120 mm, Height: 25 mm. Product colour: Black, Transparent



Performance		Design	
Suitable location *	Computer case	Product colour *	Black, Transparent
Type *	Fan	Material	Plastic
Fan diameter	12 cm	Number of fans	1 fan(s)
Supported processor sockets	Not supported	Power	
Compatible processor series	Not supported	Voltage	12 V
Rotational speed (max)	1200 RPM	Weight & dimensions	
Noise level (low speed)	20 dB	Width	120 mm
Noise level (high speed)	23 dB	Depth	120 mm
Bearing type	Fluid Dynamic Bearing (FDB)	Height	25 mm
Mean time between failures (MTBF)	150000 h	Weight	100 g



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