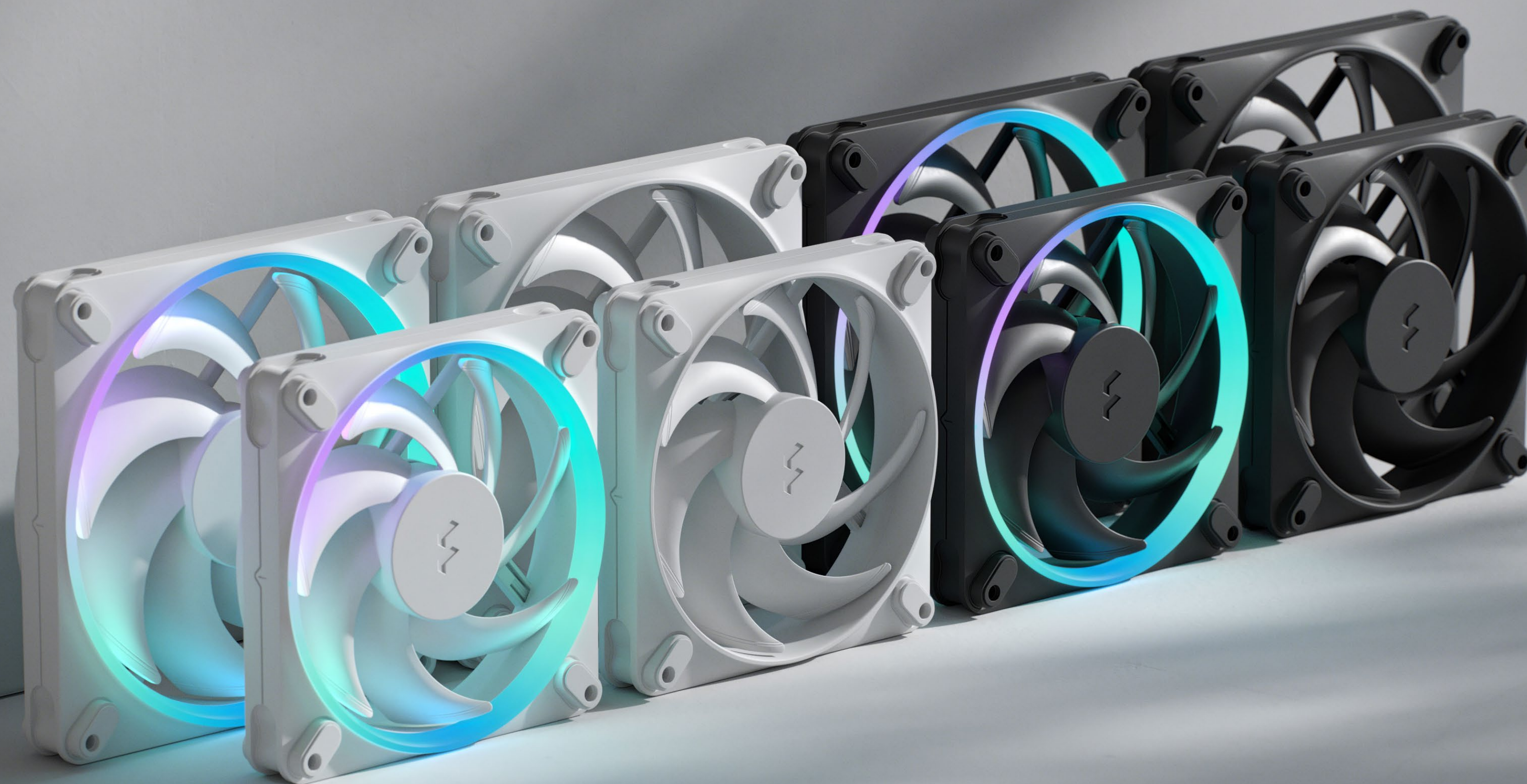




PRODUCT SHEET

Momentum

English version

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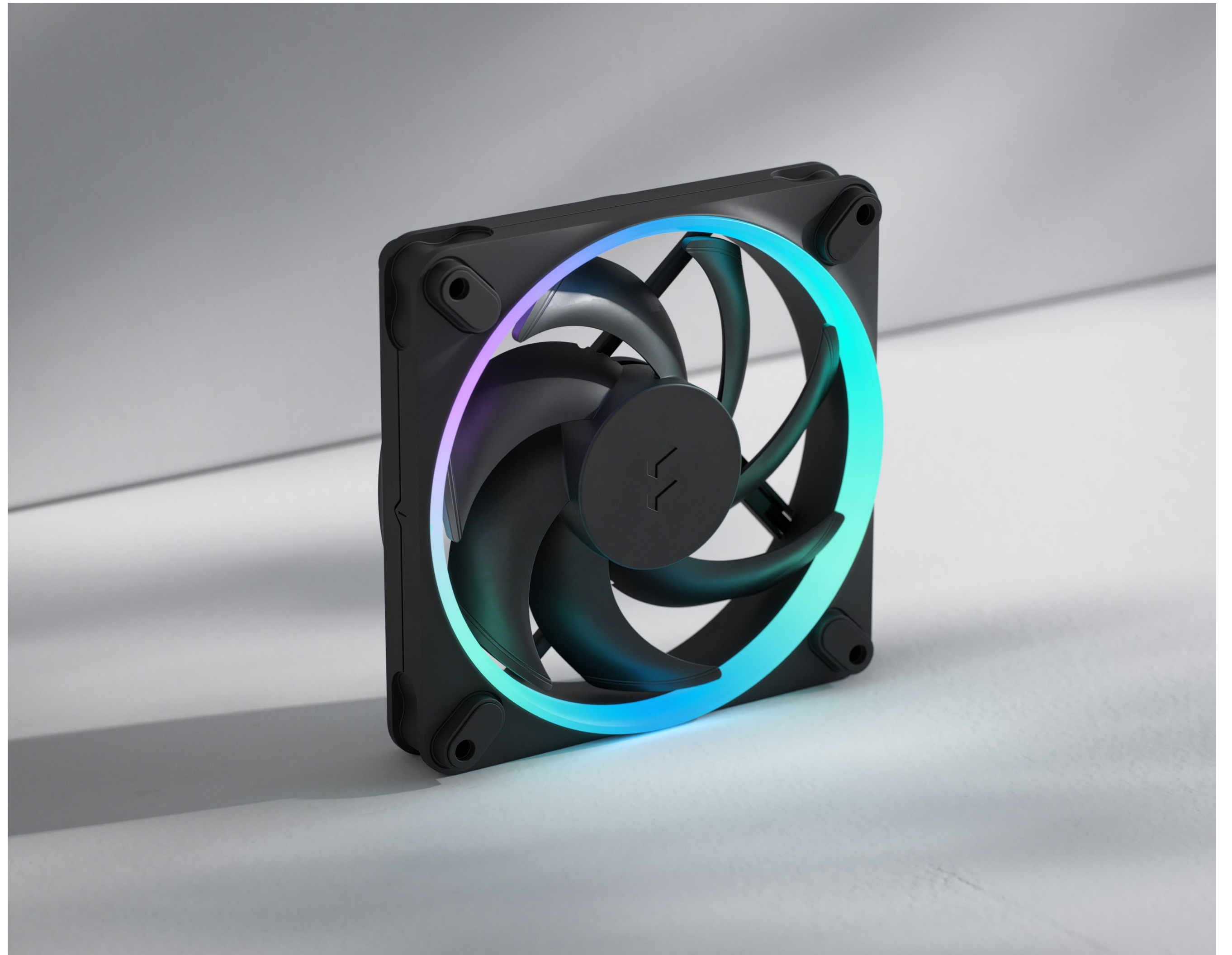


OVERVIEW

Momentum

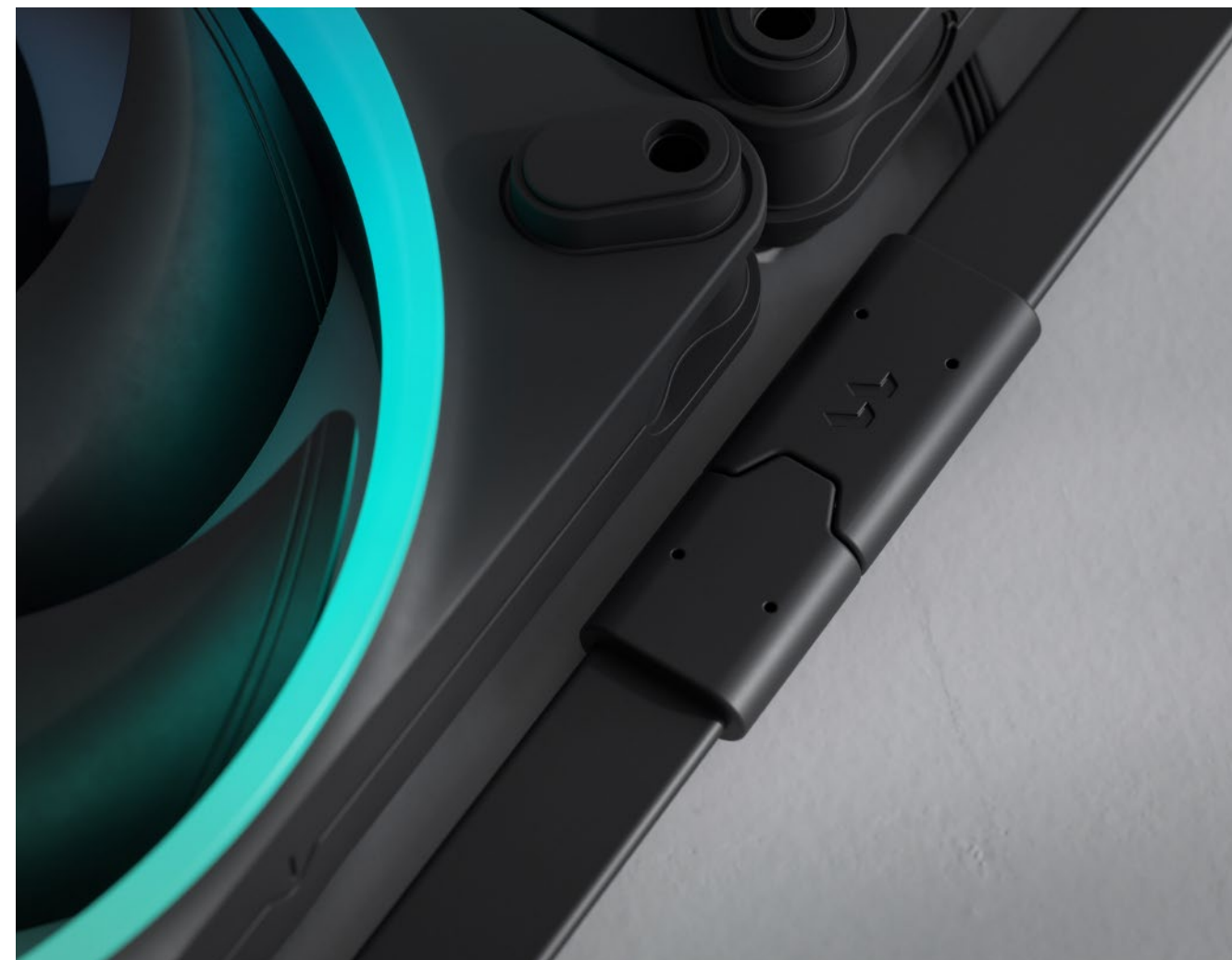
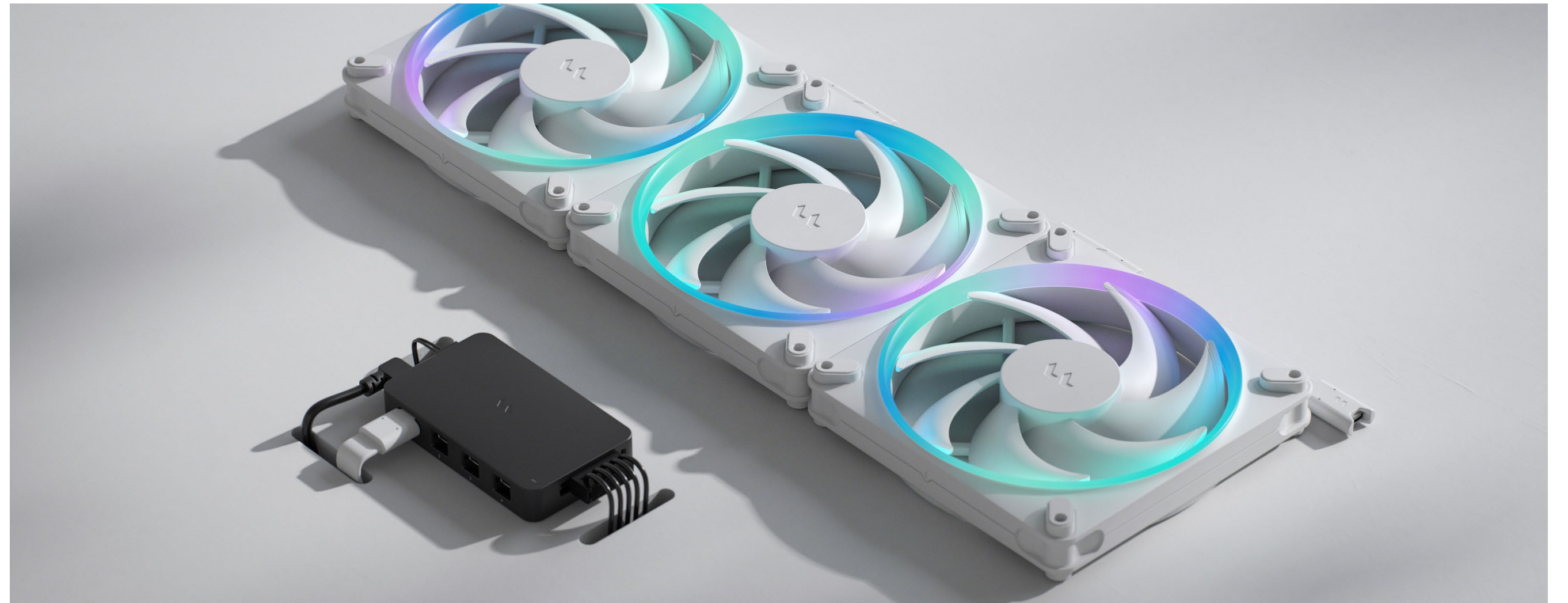
Advanced cooling performance

Momentum is a high-performance fan series that fuses premium materials with performance engineering to minimize noise while maximizing cooling efficiency. It combines a swept blade design, vibration-reducing rubber bushings, and true fluid dynamic bearing technology to ensure quieter operation. To further improve efficiency, Momentum features blades constructed from Liquid Crystal Polymer (LCP), reducing the required distance between the rotor and frame for smooth operation at high rotational speeds.



Key features

- ▶ Crafted with strong Liquid Crystal Polymer (LCP) blades for improved efficiency through precision engineering
- ▶ Incorporates a swept blade design which reduces fan noise, especially at high rotational speeds
- ▶ Features a true Fluid Dynamic Bearing (FDB) with an inner herringbone structure for optimal noise performance and durability
- ▶ Features an illuminated ARGB Gen 2 ring of light, which can be customized to create atmospheric animated effects (RGB version only)
- ▶ Allows a large range of PWM control, including Zero RPM mode, for performance and noise optimization
- ▶ Each fan includes a short integrated flat cable, with one extension cable per cluster for smooth and easy daisy chaining
- ▶ Designed with a clean, unified expression and made with high-quality materials for a sleek, sophisticated finish
- ▶ Includes integrated rubber bushings around screw points to reduce vibration between the fan and case



Specifications

Specification	Momentum 12	Momentum 14	Momentum 12 RGB	Momentum 14 RGB
Size	120 mm	140 mm	120 mm	140 mm
Screw hole pattern	120 mm	140 mm	120 mm	140 mm
LED type	-	-	ARGB Gen 2 (16 LEDs)	ARGB Gen 2 (20 LEDs)
Bearing	FDB (Fluid Dynamic Bearing)	FDB (Fluid Dynamic Bearing)	FDB (Fluid Dynamic Bearing)	FDB (Fluid Dynamic Bearing)
Number of blades	7	7	7	7
Rotational speed	350 (±150) – 2200 rpm (± 10%)	350 (±150) – 1800 rpm (± 10%)	350 (±150) – 2200 rpm (± 10%)	350 (±150) – 1800 rpm (± 10%)
Zero-RPM capability	Yes (0%-10% PWM)	Yes (0%-10% PWM)	Yes (0%-10% PWM)	Yes (0%-10% PWM)
Noise level	31,3 dbA	31,9 dbA	28,03 dB(A)	28 dB(A)
Airflow (CFM)	67,34	79,79	62,44	74,39
Airflow (m3/h)	114,6	135,6	106,2	126,6
Static pressure	2,51 mmH2O	2,26 mmH2O	2,42 mmH2O	2,45 mmH2O
Fan input power	2,4 W	2,16 W	2,4 W	2,04 W
Fan max input current	0,2 A	0,18 A	0,2A	0,17 A
Fan input voltage	12V	12V	12V	12V
Fan starting voltage	7 V	7 V	7 V	7 V



Specifications

Specification	Momentum 12	Momentum 14	Momentum 12 RGB	Momentum 14 RGB
LED input power	N/A	N/A	5 V	5V
LED max input current	N/A	N/A	0,24 A	0,3 A
LED input voltage	N/A	N/A	5V	5V
MTBF	>90 000 h	>90 000 h	>90 000 h	>90 000 h
Unit weight	163 g	207 g	192g	253g
Cable length	135 mm daisy chain + 500mm extension cable	155 mm daisy chain + 500mm extension cable	135 mm daisy chain + 500mm extension cable	155 mm daisy chain + 500mm extension cable
Cable type	4-pin PWM connectors	4-pin PWM connectors	Fractal Connect	Fractal Connect
Packaging dimensions including hanging tab	200 x 131 x 32 mm	223 x 149 x 32 mm	200 x 131 x 32 mm (single pack)	223 x 149 x 32 mm (single pack)
			189 x 131 x 95 mm (3-pack)	209 x 149 x 93 mm (3-pack)
Packaging dimensions excluding hanging tab	165 x 131 x 32 mm	188 x 149 x 32 mm	165 x 131 x 32 mm (single pack)	188 x 149 x 32 mm (single pack)
			157 x 132 x 95 mm (3-pack)	177 x 153 x 93 mm (3-pack)



Package contents

Momentum 12	Momentum 12 RGB	Momentum 12 RGB 3-pack	Momentum 14	Momentum 14 RGB	Momentum 14 RGB 3-pack
1x Momentum 12	1x Momentum 12 RGB	3 x Momentum 12 RGB	1x Momentum 14	1x Momentum 14 RGB	3 x Momentum 14 RGB
1x Extension cable	1x Splitter cable	1x Splitter cable	1x Extension cable	1x Splitter cable	1x Splitter cable
4x Fan screws	4x Fan screws	1x Extension cable	4x Fan screws	4x Fan screws	1x Extension cable
		12x Fan screws			12x Fan screws

Additional information

Product	SKU	EAN	UPC	JAN
Momentum 12, Black	FD-F-MO1-1201	7340172708841	843276108847	4537694346214
Momentum 12, White	FD-F-MO1-1202	7340172708858	843276108854	4537694346221
Momentum 14, Black	FD-F-MO1-1401	7340172708865	843276108861	4537694346238
Momentum 14, White	FD-F-MO1-1402	7340172708872	843276108878	4537694346245
Momentum 12 RGB, Black	FD-F-MR1-1201	7340172708889	843276108885	4537694346252
Momentum 12 RGB, White	FD-F-MR1-1202	7340172708896	843276108892	4537694346269
Momentum 14 RGB, Black	FD-F-MR1-1401	7340172708902	843276108908	4537694346276
Momentum 14 RGB, White	FD-F-MR1-1402	7340172708919	843276108915	4537694346283
Momentum 12 RGB, 3-pack, Black	FD-F-MR1-1203	7340172708926	843276108922	4537694346290
Momentum 14 RGB, 3-pack, Black	FD-F-MR1-1403	7340172708933	843276108939	4537694346306



