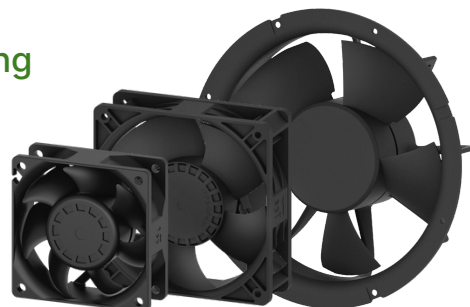


CF Series

EC High-Performance Axial Fans for AC Enclosure Cooling

Brushless DC EC motors with integrated AC–DC conversion deliver strong airflow at a fraction of the input power of traditional AC axial fans. Available in 60, 70, 80, 92, 120, and 200 mm sizes, running directly from 100–240 VAC mains, with IP- and ATEX-rated options for harsh environments.



Energy-saving EC

100–240 VAC

MagLev & ball bearing

IP / ATEX options

UL · cUL · CE · TÜV · UKCA

The Challenge

Power dense systems such as commercial freezers, EV chargers, energy-storage cabinets, and industrial control panels pack sensitive electronics into compact enclosures running 24/7. They contend with heat, dust, humidity, and frequent load changes, while shaded-pole and other legacy AC axial fans waste energy and leave thin thermal margin as power densities climb.

Key Benefits

Lower operating cost

Roughly 75–80% less input power than shaded-pole AC fans cuts kWh in continuous-duty equipment.

Long service life

MagLev (small frames) and ball-bearing (large frames) structures designed for 24/7 duty cycles.

Smarter cooling

Tach output and PWM speed-control on selected models enable temperature based fan curves, so the system delivers only the airflow you need.

The CF Series Solution

CF Series replaces legacy AC fans with high efficiency EC technology in the same familiar 60–200 mm axial footprints, with the same frame, mounting, and lead-wire termination. The result: roughly 75–80% lower input power than shaded-pole AC fans (about 5–22% lower than equivalent Sunon MA Series MagLev AC fans), longer service life, and IP/ATEX protection where the application demands it.

Drop-in upgrade path

Familiar 60, 70, 80, 92, 120, and 200 mm axial sizes replace existing AC fans without redesign.

Built for harsh duty

IP21, IP55, IP68, and IP68/ATEX protection options on Eco EC variants for moisture, dust, and hazardous areas.

Global compatibility

Wide range 100–240 VAC input and UL, cUL, CE, TÜV, UKCA approvals for global designs.

The CF Series at a Glance

Two complementary families covering small enclosures to high-airflow cabinets.

MagLev EC · 60 – 92 mm



Models: CF106, CF206, CF107, CF207, CF108, CF208, CF109, CF209
 Sizes: 60×60×25, 70×70×25, 80×80×25, 92×92×25 mm
 Bearing: MagLev (Vapo)
 Airflow: 17.5–54 CFM
 Power: 2.7–4.6 W (60 Hz, by speed grade)
 Operating temp: –20 to +70 °C
 Best for: low noise, long life, MA Series upgrades, and small cabinet cooling.

Eco EC · 120 and 200 mm



Models: CF411 (120×120×38 mm), CF4207 (200×200×77 mm), CF2207 (ø250×77 mm)
 Bearing: Ball
 Airflow: 64–438 CFM
 Power: 1.8–17.5 W
 Protection: IP21 / IP55 / IP68 / IP68 + ATEX
 Operating temp: –40 to +70 °C
 Best for: commercial freezers, EV chargers, ESS, hazardous-area enclosures.

Specifications Snapshot

	CF1062	CF2072	CF1082	CF2092	CF411	CF4207
Frame size	60×60×25	70×70×25	80×80×25	92×92×25	120×120×38	200×200×77
Voltage (VAC)	100–120	200–240	100–120	200–240	100–240	100–240
Airflow (CFM, 60 Hz)	18.0	29.0	41.0	54.0	64–109	280–438
Power (W, 60 Hz)	2.8	3.9	4.1	4.2	1.8–5.1	5.0–17.5
Bearing	Vapo	Vapo	Vapo	Vapo	Ball	Ball

Representative models shown. Full performance curves and dimensional drawings in the Sunon EC Catalog.

Applications



More Information

Datasheets & catalog
sunonusa.com · [EC Catalog \(270-E\)](#)