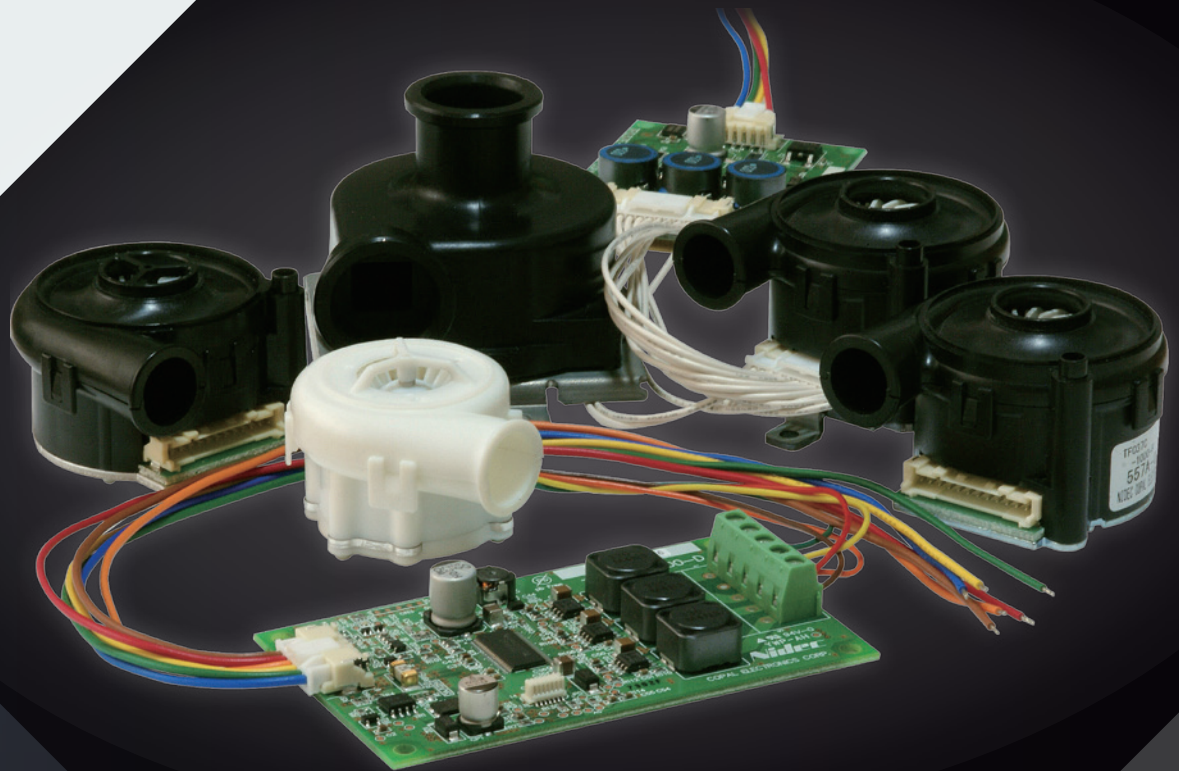




AERODYNAMIC BEARINGS

MICRO BLOWERS

NIDEC COPAL ELECTRONICS CORP.

AERODYNAMIC BEARINGS

MICRO BLOWERS

Compact
Light weight



High static
Pressure



Ultra high-speed rotation



Low vibration
Long life



No wear on
shaft and sleeve

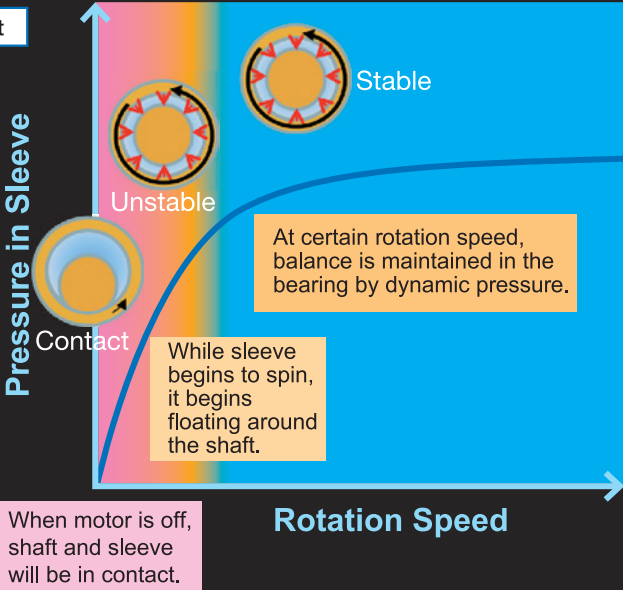
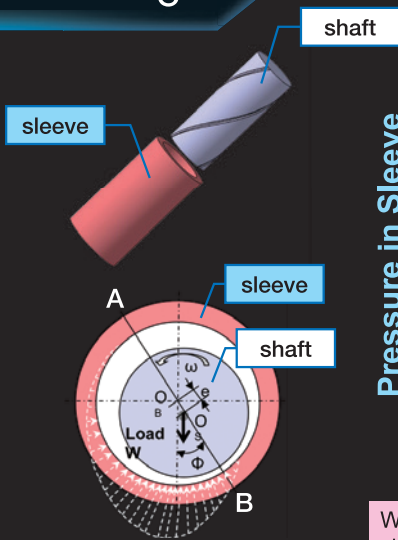


Our unique Aerodynamic Bearings technology generates a non-contact rotational motion to provide ultra-high speed rotation.
(Max.50,000 rpm)

Aerodynamic bearings

Non-contact bearing structure

balancing optimization



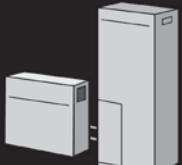
Please watch the high performance of our Micro Blowers with the video on YouTube.
<https://youtu.be/UWwYQcCXxtk>

Applications

Compact and high power microblowers are ideal for the following applications.



CPAP
(Medical Devices)



Fuel Cell System



Server



Air Cleaner



Ionizer



3D Printer

Quick Reference Table

Item	Part No.	TF037C-2100-F / TF037C-2000-F	TF037E-2000-F	TF037F-2000-F	TF029B-1000-F
Rated Voltage		24 VDC ±10%	24 VDC ±10%	12~24 VDC	12~27 VDC
Rated Power Supply Current		1.2 A Max.	0.86 A Max.	0.67 A Max.	0.62 A Max.
Rated Power Consumption		29 W Max.	22.7 W Max.	16.1 W Max.	14.9 W Max.
Rated Rotation Speed		40,000 r/min	35,500 r/min	31,000 r/min	36,000 r/min
Rated Air Flow		100 ℓ/min	100 ℓ/min	100 ℓ/min	100 ℓ/min
Rated Pressure		4 kPa	3 kPa	2 kPa	2 kPa
Maximum Rotation Speed		45,000 r/min	45,000 r/min	45,000 r/min	50,000 r/min
Maximum Pressure		4.5 kPa	4.5 kPa	4.5 kPa	3.5 kPa
Acoustic Audible Noise		67.0 dB (A) Max.	65.0 dB (A) Max.	65.0 dB (A) Max.	65.0 dB (A) Max.
Weight		2100-F: 94 g / 2000-F: 90 g	165 g	72 g	55 g
Material in Resin		Full compliance with UL94 V0		Full compliance with FDA standards	

AERODYNAMIC BEARINGS
MICRO BLOWERS

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