

172 SERIES FAN

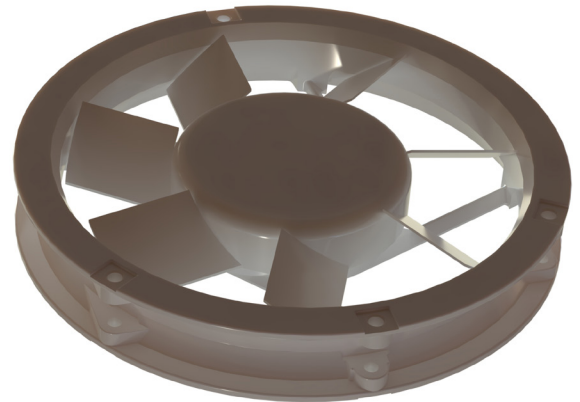
Ø172mm DC Axial Fans for Liquid Cooling and High-Airflow Thermal Systems

Axial fans remain one of the most efficient ways to move large volumes of air across a heat exchanger, and impeller diameter is the single biggest driver of how much airflow a fan can deliver at a given speed. A larger Ø172mm impeller moves substantially more air per revolution than the smaller frame sizes common in electronics cooling, which allows the fan to run at lower, quieter speeds while still meeting demanding thermal loads. This makes the 172mm fan a natural fit anywhere high airflow and acoustic performance both matter.

Wakefield Thermal designed the 172mm fan specifically to pair with our liquid cooling test kit, where it mounts directly to the air-side heat exchanger to reject heat carried away from the cold plate and pump loop. The fan is offered in 24V and 48V versions across four speed grades (4000 to 5200 RPM), giving system designers a way to balance airflow, static pressure, and noise without changing the mechanical footprint. Beyond the test kit, the same platform supports equipment enclosures, control cabinets, and power supplies wherever reliable, high-volume airflow and a secure metal-frame installation are required.

Standard configurations include 2-wire and 4-wire (PWM speed control), and connector styles can be customized to match your harness or platform. The 172mm fan is also compatible with Wakefield Thermal's new line of [heat exchangers](#), forming a complete air-side cooling path.

GENERAL SPECIFICATIONS	
MOTOR	DC single phase brushless motor
FRAME	METAL
IMPELLER	PBT(94V-0)
OPERATING TEMP	-10°C~70°C
STORAGE TEMP	-40°C~70°C
WEIGHT	700g
STANDARD VOLTAGES	24V, 48V
STANDARD LEAD LENGTH	300mm



WHY SPECIFY THE 172MM FAN

- Large Ø172mm impeller delivers up to 433 CFM, reducing the speed needed to hit a given airflow target and improving acoustic performance versus smaller-frame fans.
- Four speed grades (L, M, H, U) and dual voltage options (24V/48V) let one mechanical platform cover a wide performance range.

ORDERING & CUSTOMIZATION

Wakefield's DC fan part numbers use the following convention:

Example: DC1725124L-2T

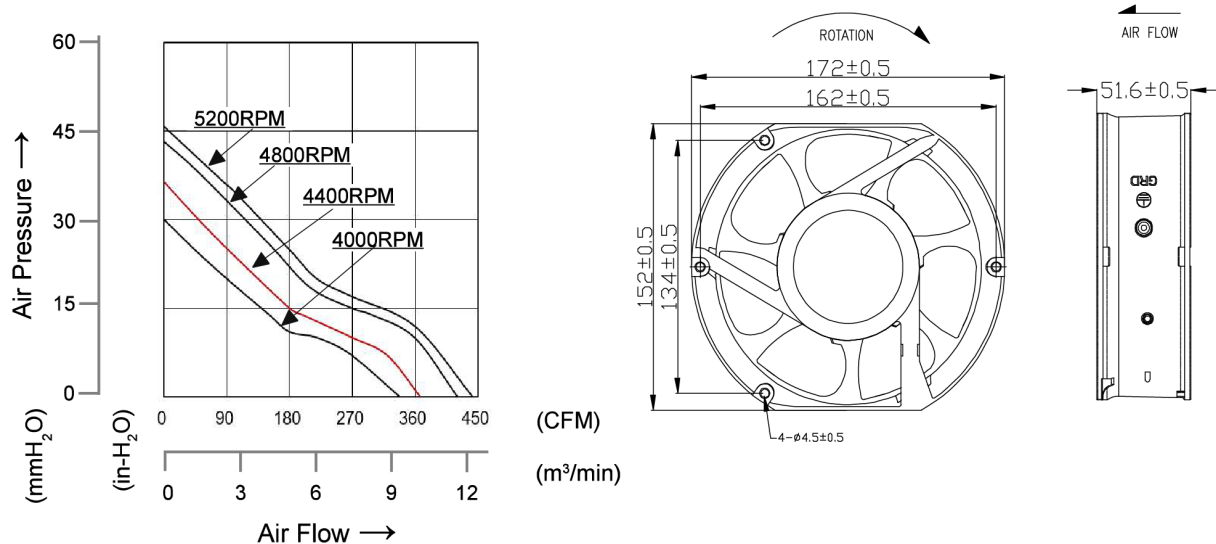
Series	Size (mm)	Thickness (mm)	Rated Voltage (VDC)	Speed Code	Wiring
DC	172	51	24	L	2B-2T
			Options: 24/48	Options: L/M/H/U	Options: 2B-2T0 (2-wire) 2B-BT0 (4-wire)

TECHNICAL SPECIFICATIONS

Wakefield Thermal Part Number	Size (mm)	Thickness (mm)	Rated Voltage (VDC)	# of Wires	Rated Current (A)	Rated Power (W)	Rated Speed (RPM)	Speed Code	Max Airflow (CFM)	Max Pressure (In H ₂ O)	Noise Level (dB/A)
DC1725124L2B-2T0	172	51	24	2-wire	1.40	33.6	4000	L	338.06	1.18	58.4
DC1725124L2B-BT0	172	51	24	4-wire	1.40	33.6	4000	L	338.06	1.18	58.4
DC1725124M2B-2T0	172	51	24	2-wire	1.88	45.1	4400	M	367.07	1.44	61.9
DC1725124M2B-BT0	172	51	24	4-wire	1.88	45.1	4400	M	367.07	1.44	61.9
DC1725124H2B-2T0	172	51	24	2-wire	2.66	63.8	4800	H	421.20	1.70	64.9
DC1725124H2B-BT0	172	51	24	4-wire	2.66	63.8	4800	H	421.20	1.70	64.9
DC1725124U2B-2T0	172	51	24	2-wire	3.20	76.8	5200	U	433.08	1.81	65.4
DC1725124U2B-BT0	172	51	24	4-wire	3.20	76.8	5200	U	433.08	1.81	65.4
DC1725148L2B-2T0	172	51	48	2-wire	0.80	38.4	4000	L	338.06	1.18	58.4
DC1725148L2B-BT0	172	51	48	4-wire	0.80	38.4	4000	L	338.06	1.18	58.4
DC1725148M2B-2T0	172	51	48	2-wire	0.97	46.6	4400	M	367.07	1.44	61.9
DC1725148M2B-BT0	172	51	48	4-wire	0.97	46.6	4400	M	367.07	1.44	61.9
DC1725148H2B-2T0	172	51	48	2-wire	1.46	70.1	4800	H	421.20	1.70	64.9
DC1725148H2B-BT0	172	51	48	4-wire	1.46	70.1	4800	H	421.20	1.70	64.9
DC1725148U2B-2T0	172	51	48	2-wire	1.52	73.0	5200	U	433.08	1.81	65.4
DC1725148U2B-BT0	172	51	48	4-wire	1.52	73.0	5200	U	433.08	1.81	65.4

PERFORMANCE CURVES & DIMENSIONS

Air pressure vs. airflow is shown below for all four speed grades, alongside full dimensional and mounting detail for the 172mm fan frame.



Sold through our Distribution Channel. For help finding your Ø172mm DC Fans, contact us at:
Phone: (603) 635-2800 or communications@wakefieldthermal.com

*Also available in custom sizes upon request. Connector style and lead length can be customized for OEM platforms; contact Wakefield Thermal for application support.

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