

**SERIES:** CFM-25B | **DESCRIPTION:** DC AXIAL FAN**FEATURES**

- 25 x 25 mm frame
- multiple speed options for different cooling needs
- auto restart protection standard on all models
- 5 Vdc and 12 Vdc models available
- dual ball bearing construction



MODEL	input voltage		input current <sup>1</sup>	input power <sup>1</sup>	rated speed <sup>1</sup>	airflow <sup>2</sup>	static pressure <sup>3</sup>	noise <sup>4</sup>
	rated (Vdc)	range (Vdc)	max (A)	max (W)	typ (RPM±20%)	(CFM)	(inch H <sub>2</sub> O)	typ (dBA)
CFM-2510B-070-140	5	4.5~5.5	0.12	0.60	7,000	1.35	0.06	14.1
CFM-2510B-0100-218	5	4.5~5.5	0.21	1.05	10,000	1.93	0.13	21.8
CFM-2510B-0130-275	5	4.5~5.5	0.23	1.15	13,000	2.51	0.22	27.5
CFM-2510B-170-140	12	10.8~13.2	0.06	0.72	7,000	1.35	0.06	14.1
CFM-2510B-1100-218	12	10.8~13.2	0.08	0.96	10,000	1.93	0.13	21.8
CFM-2510B-1130-275	12	10.8~13.2	0.11	1.32	13,000	2.51	0.22	27.5

- Notes:
1. At rated voltage, after 3 minutes.
  2. At rated voltage, room temperature, 65% humidity, 0 inch H<sub>2</sub>O static pressure.
  3. At rated voltage, 0 CFM airflow.
  4. Measured in an anechoic chamber as per ISO3745/GB4214-84 at rated voltage, with background noise 20±2 dBA at 1 m from the fan intake.
  5. All specifications are measured at 25°C, 65% relative humidity unless otherwise specified.

## INPUT

parameter	conditions/description	min	typ	max	units
operating input voltage <sup>6</sup>	5 Vdc input models	4.5	5	5.5	Vdc
	12 Vdc input models	10.8	12	13.2	Vdc
starting voltage	5 Vdc input models		3.5		Vdc
	12 Vdc input models		7.0		Vdc

Note: 6. See Model section on page 1 for specific input voltage ranges.

## PERFORMANCE<sup>7</sup>

parameter	conditions/description	min	typ	max	units
rated speed	at rated voltage, 25°C, after 3 minutes	7,000		13,000	RPM
air flow	at 0 inch H <sub>2</sub> O, see performance curves	1.35		2.51	CFM
static pressure	at 0 CFM, see performance curves	0.06		0.22	inch H <sub>2</sub> O
noise	at 1 m, rated speed	14.1		27.5	dBa

Note: 7. See Model section on page 1 for specific values.

## PROTECTIONS / FEATURES

parameter	conditions/description	min	typ	max	units
auto restart	on all models				

## SAFETY & COMPLIANCE

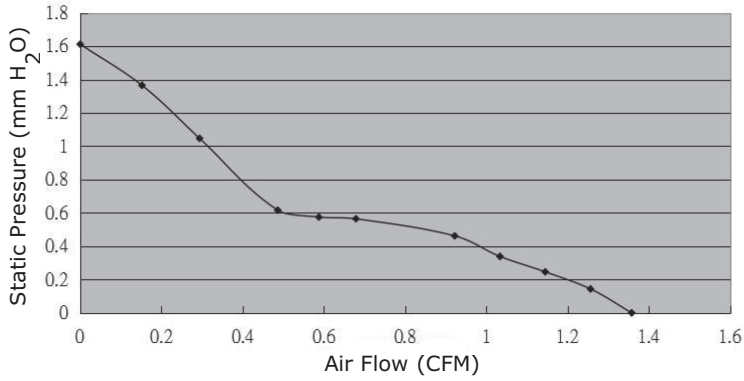
parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc between frame and positive terminal	10			MΩ
dielectric strength	at 500 Vac, 60 Hz, 1 minute between housing and positive terminal			5	mA
safety approvals	UL/cUL 507, TUV (EN 60950-1:2006+A11+A1+A12+A2)				
EMI/EMC	EN 55032:2015, EN 55024:2010+A1				
life expectancy	at 40°C, 65% RH, 90% confidence level		70,000		hours
RoHS	yes				

## ENVIRONMENTAL

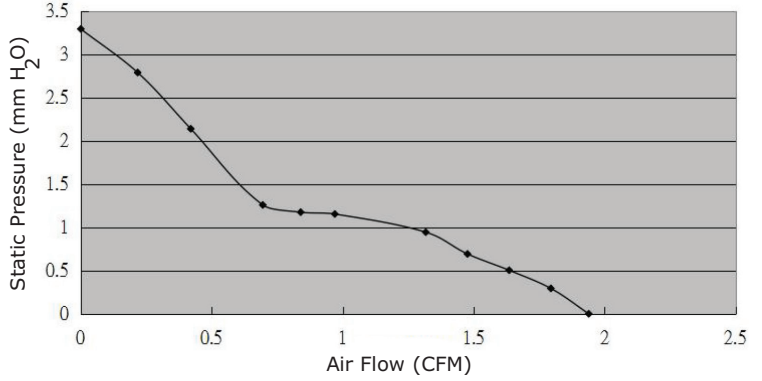
parameter	conditions/description	min	typ	max	units
operating temperature		-10		70	°C
storage temperature		-40		75	°C
operating humidity	non-condensing	35		85	%
storage humidity	non-condensing	35		85	%

## PERFORMANCE CURVES

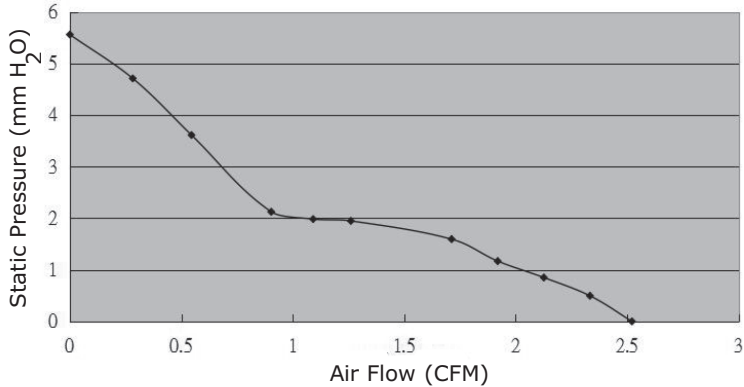
**CFM-2510B-070-140**



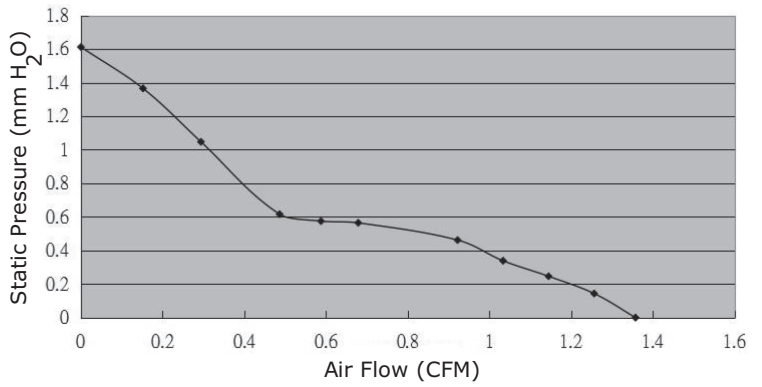
**CFM-2510B-0100-218**



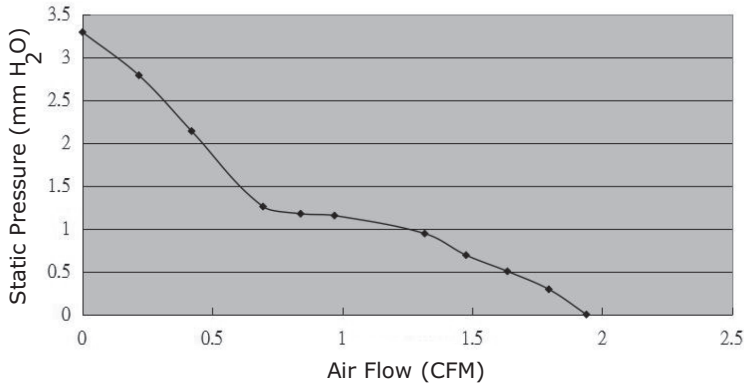
**CFM-2510B-0130-275**



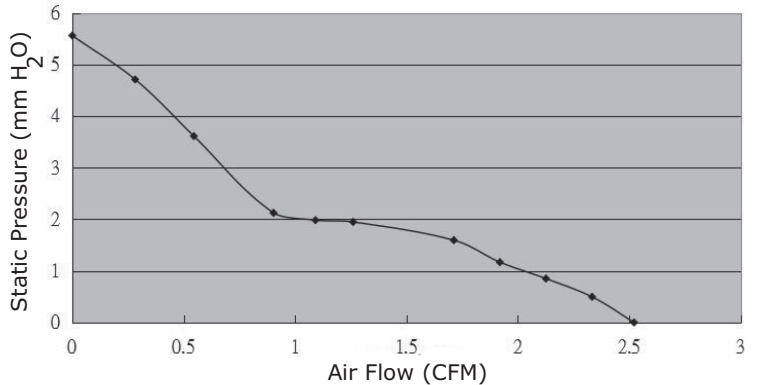
**CFM-2510B-170-140**



**CFM-2510B-1100-218**



**CFM-2510B-1130-275**



## MECHANICAL

parameter	conditions/description	min	typ	max	units
motor	4 pole DC brushless				
bearing system	dual ball bearing				
direction of rotation	counter-clockwise viewed from front of fan blade				
dimensions	25 x 25 x 10				mm
material	PBT (UL94V-0)				
weight	5 Vdc models		6.89		g
	12 Vdc models		7.0		g

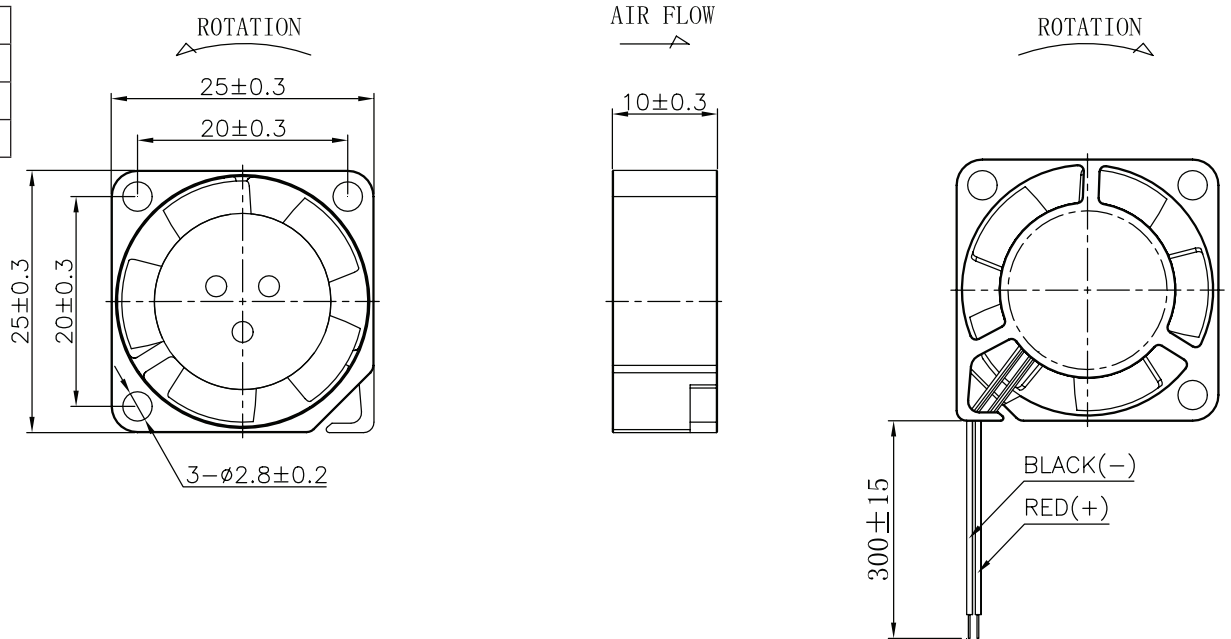
## MECHANICAL DRAWING

units: mm

wire: UL 1061, 28 AWG

MOUNTING SCREW (Pan Head)			
Screw Type	Size	Standard	Torque
Machine Screw	M2.5	JIS B1111-1974	7.5 kgf-cm

WIRE CONNECTIONS	
Wire Color	Function
Red	+Vin
Black	-Vin



## REVISION HISTORY

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rev.	description	date
1.0	initial release	04/14/2020

The revision history provided is for informational purposes only and is believed to be accurate.

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