

19929 HARRISON AVE., INDUSTRY, CA 91789, USA Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

Standards and Specifications of Model: FD5010S12W7-71-2NSC



A. General Specification

Item			Specification / Standard / Condition			
01	Outline Dimension	50 x 50 x 10	0 mm			
02	Bearing	Sleeve Bear	ring			
03	Rated Voltage	DC 12	V			
04	Operating Voltage	DC 6.0	V ~ DC 13.8	V		
05	Starting Voltage	DC 6.0	V			
06	Rated Current (Max.)	0.19	Α	A Data d Malta as		
07	Actual Current	0.16	Α	1. Rated Voltage 2. 25°C, 65% RH		
80	Power Consumption	1.9	W	2. 25 0, 05 /01(11		
09	Rated Speed	5,900	RPM ± 10%	 Free Air Rated Voltage After 10 Min. Rotating. 		
10	Max. Air Flow	13.4	CFM	Rated Voltage AMCA Standard		
11	Max. Static Pressure	3.6	mm-H ₂ O	3. Rated Current		
12	Noise Level(AVG.)	34.0	dB(A)	 Rated Voltage Measured in a Non-Echo Chamber ISO 3745 Test Condition 		
13	Life Expectancy	20,000	Hrs at 40°C	 L10 at Conf. Level 90% Rated Voltage 		
14	Net Weight	20	Gram			
15	Number of Blade	7	Blades			
16	Number of Pole	4	Poles			
17	Rotating Direction	Counter-Clo	ockwise	Looking at Rotor Side		
18	Material:		30% GF Black			
19	Lead Wire	UL1007,26AWG 90mm±10MM		Red: (+) Black: (-)		
20	Connector	2.50Pin Cor	nector			

B. Electrical Specification

Item		Specification / Condition	
01	Locked Rotor Protection	No damage done for a continuous 15 minutes rotation lock at rated voltage.	
02	Insulation Resistance	10 m. Ohm / between unshielded wire and frame at 500 VDC/min.	
03	Dielectric Strength	5 mA Maximum. / Measured between lead wire + and frame at 500 VAC/min.	

Model No.: FD5010S12W7-71-2NSC Page 2 of 6

19929 HARRISON AVE., INDUSTRY, CA 91789, USA Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

C. Environmental Specification

Item		Specification / Condition	
01	Operating Condition	Temperature: -20 °C ~ + 70 °C Humidity: 15% ~ 90% RH	
02	Storage Temperature	Temperature: -40 °C ~ + 85 °C Humidity: 15% ~ 90% RH	
03	Packing Vibration Test	Packing condition: X, Y, Z 3 directions, 1.1G load vibration test for 30 min.	
04	Packing Shock Proof Test	1 corner, 3 edges, 6 faces natural drop from 60cm high, packed	

D. Safety Approvals

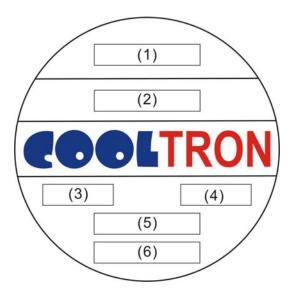




Safety Approval	File No.
UL	E194726
CUL	E194726
TUV	B 05 11 57907 002

E. Label Marking

01: Fan Label Marking



(1)	Safety Approval
(2)	Model Number & Appendix Code
(3)	Rated Voltage
(4)	Power Consumption
(5)	Bearing Type
(6)	Location

02: RoHS Label Marking:

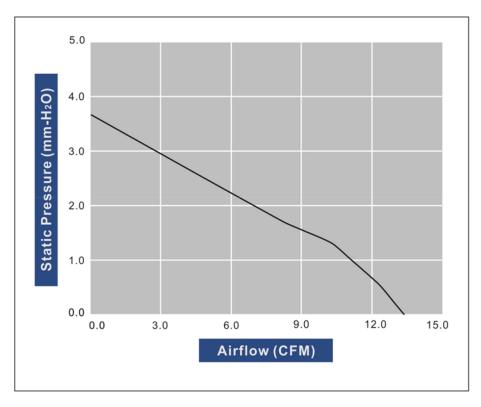


Label	Location
RoHS & Date Code	Fan Outlet Frame

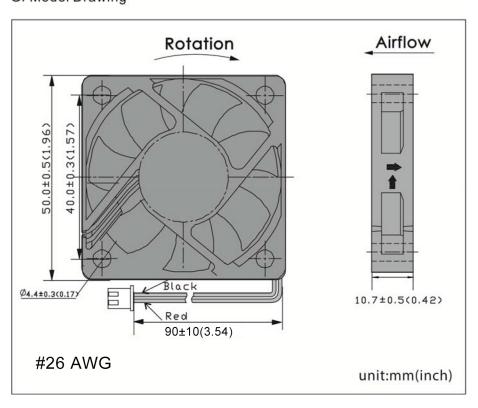
Model No.: FD5010S12W7-71-2NSC Page 3 of 6

19929 HARRISON AVE., INDUSTRY, CA 91789, USA Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

F. Air Flow Performance Curve



G. Model Drawing



Model No.: FD5010S12W7-71-2NSC Page 4 of 6

19929 HARRISON AVE., INDUSTRY, CA 91789, USA Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

H. Fan Photos









FD5010-71

Model No.: FD5010S12W7-71-2NSC Page 5 of 6

19929 HARRISON AVE., INDUSTRY, CA 91789, USA Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

REMARKS

- 1. COOLTRON will not assume responsibility for the performance of the products if the application conditions fall outside the parameters stated forth in this specification.
- 2. A written request should be submitted to COOLTRON prio r to approval if abnormality and deviation from this specification is required.
- 3. Please be cautious when fan is being exercised or handled. Damages may be resulted when apply pressure to the impeller or hold the fan by the le ad wires or drop the fans to the production platform.
- 4. With exception of suitability of some particular designs, any failure and problems regarding safety of the product caused by the introduction of powder, droplets of water or encroachment of insert in the hub are not guaranteed.
- 5. All general specifications and quality values are measured under condition of free air and fan vertical set up. COOLTRON highly suggests practicing a test when fan apply to a special application.
- 6. COOLTRON fans are not suitable to be used in an environment that contains aggressive or corrosive fluids.
- 7. Always ensure that fans are stored according to the storage temperatures specified. Do not store in an environment with a high humidity level. If the fans were stored for longer than 6 months, it is highly recommended to apply functional testing before shipping.
- 8. Except for the feature of the Lock Rotor Protection specifically stated, this feature is not applied to all fans. COOLTRON highly suggests not to stop the impellers of the working fans such interruption will cause adverse effect.
- 9. During installation, ple ase be cautious. COOLTRON is not responsible for any excess resonance, vibration and subsequent noise caused by incorrect mounting of fans.
- 10. During testing it is important to consider safety at all times. A suitable guard should be fitted to the fan to prevent personal injury.
- 11. All test environments are conducted under the condition of relative (ambient) temperature and humidity at 25 °C, 65%RH. The test result stated above is effective only for unique fan performance.
- 12. The above conditions are examples of extreme application. However they are very important and should receive top priority.

Model No.: FD5010S12W7-71-2NSC Page 6 of 6