



172x150x51mm/6x2 inch , 320~125 CFM

TD1751SAP General specification

- Motor: Programmable microprocessor brushless DC, locked rotor/polarity protected
- Motor Protection:
- Frame: Aluminum die-cast, black cosmetics. Option: Natural color treatment
- Impeller: Glass fiber reinforced thermoplastic PBT, rated UL94V-0
- Bearing: Two high precision permanently lubricated ball bearings
- Rotation: CW looking at rotor, air inlet side of housing, air outlet from struts
- Operating Temp: Ambient non-condensing allowable thermal range -15C ~ +65C
- Storage Temp:
- Life Expectancy: Indoor free air running test MTBF 90,000 hrs at 35C, 40,000 hrs at 60C
- Dielectric Strength: 500 VAC/sec. Max leakage 500 micro amp
- Connection: Wire lead or Terminal flat pin connecting for choice
- Weight: 820 g (1.8 Lbs)

Model	Rated Voltage	Voltage Range	Input Power	Rated Current	Ref. Speed	Max Airflow	Max Pressure	Noise	
	VDC	VDC	W	A	RPM	CFM	Inch/H2O	mm	dB
TD1751SAP-HHH-12	12	8~13.8	64.8	5.4	4100	315	1.02	25.91	59
TD1751SAP-HH-12	12	8~13.8	50.4	4.2	3800	290	0.93	23.62	56
TD1751SAP-H-12	12	8~14	23	1.9	3200	230	0.75	19.05	51
TD1751SAP-M-12	12	9~14	13.2	1.1	2500	180	0.51	12.95	42
TD1751SAP-L-12	12	9~15	5.5	0.45	1600	125	0.35	8.89	32
TD1751SAP-HHH-24	24	15~27	63.6	2.65	4150	320	1.05	26.67	60
TD1751SAP-HH-24	24	15~27	50.4	2.1	3900	300	0.98	24.89	57
TD1751SAP-H-24	24	15~27.6	24	0.97	3300	235	0.79	20.07	52
TD1751SAP-M-24	24	17~27.6	13	0.52	2500	180	0.51	12.95	42
TD1751SAP-L-24	24	17~28	5	0.20	1600	125	0.35	8.89	32
TD1751SAP-HHH-48	48	22~53	62.4	1.3	4150	320	1.05	26.67	60
TD1751SAP-HH48	48	22~53	49.4	1.03	3900	300	0.98	24.89	57
TD1751SAP-H48	48	22~56	23.5	0.48	3300	235	0.79	20.07	52
TD1751SAP-M-48	48	24~58	14.5	0.30	2500	180	0.51	12.95	42
TD1751SAP-L-48	48	24~63	5.8	0.12	1600	125	0.35	8.89	32

Related Product Information

Please see our related items below for suggested products to use with this item:

- Metal Fan Guard: TWG-172
- Plastic Fan Guard: TPG-172
- Plastic Fan Filter: TFK-172-30, TFK-172-45
- Metal Fan Screen: TMS-172

Related Technical Information

-Optional Function Leads:

- *Alarm, motor stop, cutoff sensor signals (L, run-Low, stop-High for alarm function, color yellow lead)
- *Tach speed sensor output, open collector, 2 square waves per revolution, or TTL 4.4~5 VDC optional (T, white lead)

*Speed control:

- H, NTC thermistor thermal control 1800~3400RPM/4.7~10K ohm vs 45~20C(H, orange lead)
- P, Pulse Width Modulation, microprocessor programmable CPU speed control, 10~100%, full stop & 10 speed stages; 800~3800RPM (P, purple lead)
- V, Control voltage speed setting, Analog 0~10V vs speed RPM speed control via separate DC low voltage interface (V, gray lead)

Fan Performance Curves and Dimension

Dimensions of installation holes

172±1mm (6.77")
162±0.5 (6.38")
150±1 (5.91")
133.3±0.5 (5.28")
111°
51±0.5 (2.01")
M4 #8
Ground holes M4x0.7 or #8-32 UNC Depth: 5-6mm
7.9 (0.31")
Push-in flat pins Thk. 0.5/0.7 Hole: 2.4x1.3 WxL: 3x8
Terminal type

Lead wires AWG20 UL/CSA 300mm/1ft
Wire type

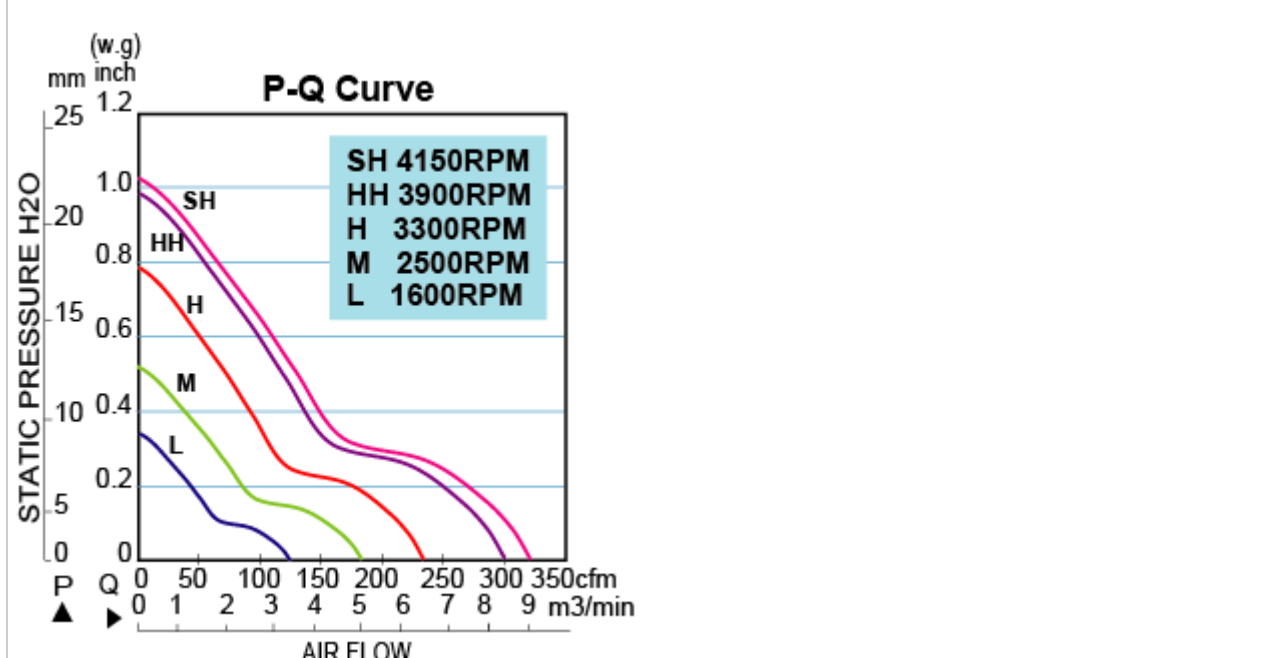
Mounting holes 4x2 ∅4.3±0.3 (0.17")

168mm (6.77")
162±0.5 (6.38")
4-∅4.6 (0.18")
∅168±1mm (6.6")
147.5±0.5 (5.8")
2 holes ∅4.6 (0.18")
162±0.5mm (6.38")
∅168±1mm (6.6")
147.5±0.5 (5.8")

4 hole version Air inlet & outlet sides
2 hole version Air inlet & outlet sides

Function Leads

Red color	Alarm	- Yellow color
5V Green	Tacho	- White color
12V Blue	Speed control:	
24V Black	Thermistor NT	- Orange
38V Brown	Pulse W. Mod.	- Purple
48V Brown	Speed setting vs Vol.	- Gray



* TEI reserves the right to change data and specs without notice* Tests are at nominal rated voltage against zero static pressure* Specifications subject to change without notice, data tolerance + -10%