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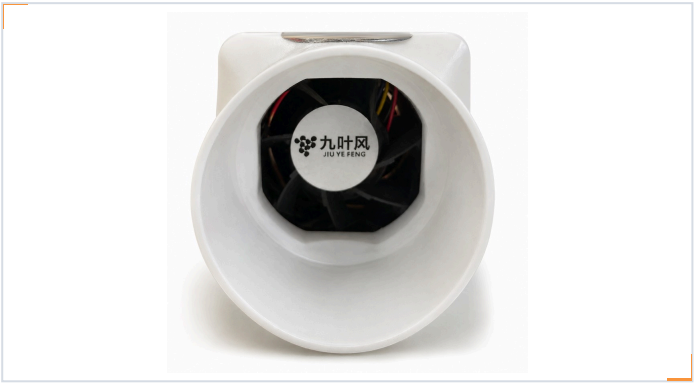
TECHNICAL DATASHEET
FAN-DUCT-50-12V · REV 1.1 · 2026-11-03

50 mm Inline Duct Fan 12 V DC

A small axial fan in a plastic pipe body, for moving air through 50 mm (2 inch) hose or pipe. Runs from a 12 V DC supply through a female barrel socket. No power supply is included.



Pipe ends either side of the body, rating label with the airflow arrow on top, short lead to the female DC socket.



Looking into a pipe end: the square axial fan sits inside the body.

1 DEVICE CONFIGURATION

ITEM	DETAIL
Click IT SKU CLICK-IT-968275	
Supplied	1 inline fan with a short lead ending in a female DC barrel socket
Not supplied	Power supply, hose, pipe, clamps or speed controller
Pipe size	50 mm (2 inch) hose and pipe work

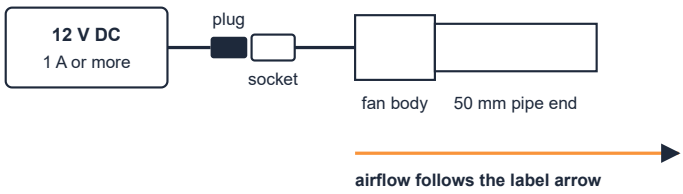
2 RATED OPERATING CONDITIONS

Values from the fan's rating label, at 12 V with free air (no pipe attached).

PARAMETER	VALUE
Rated voltage	**12 V DC**
Rated power	**6 W**
Current (6 W / 12 V)	**0.5 A**
Airflow	**36 m³/h**
Airflow, other units	**600 L/min, 21 CFM**
Pressure	**330 Pa**
Speed	**14,700 r/min**
Airflow direction	**Arrow on label**

3 WIRING

Plug a 12 V DC supply rated 1 A or more into the fan's socket. The barrel plug must fit the socket; for a battery or screw terminals, use a barrel jack screw terminal adapter.



Solar: run it from the 12 V battery or the charge controller's load output. A panel on its own puts out about 18 to 22 V.

4 FITTING AND SPEED

1. **Direction.** The fan only blows one way, along the arrow. To pull air out of a box, point the arrow away from the box.
2. **Joints.** Join it to the hose or pipe with a hose clamp, rubber coupling or tape so air cannot leak around the joint.
3. **Duct length.** Every metre of hose and every bend lowers the airflow. Keep the run short and straight.
4. **Speed and noise.** At 12 V it runs at full speed with a high-pitched whine. A lower supply voltage, for example from an adjustable step-down converter, slows it and makes it much quieter.

5 SIZING AND CHECKING A UNIT

Sizing: 36 m³/h is 600 L/min with no pipe. A 60 L enclosure has its air changed about every 6 seconds in free air; allow far less through a long hose.

Checking a unit: connect 12 V and hold a strip of paper at each end. It is pulled towards the inlet end and blown away at the end the arrow points to.

REVISION HISTORY

REV	DATE	CHANGE
1.0	2026-11-03	First release, from the rating label and photographs of our stock.
1.1	2026-11-03	Studio product photos.