

Vulcan Stove Fan Manual

Warning:

Do not oil your fan. It has been designed to operate without the use of oil. Oiling the fan is likely to cause it to cease. This is particularly true if the glass cylinder is oiled.

Keep away from any frying/source pans that are being used as this has been known to splatter oil onto the stove fan and stopped it from working.

Parts of the fan will be very hot while in operation and will take time to cool down once removed from the stove. If removing from the stove make sure it is placed on something that can withstand the heat.



Assembly

Your fan will arrive almost fully assembled. You simply just have to attach the fan blade which should only take a couple of minutes. Place the fan blade onto the front of the unit. You will find it fits quite snugly on to the front of the unit, in some cases a small amount of pressure may need to be applied. Rotate the blades until the screw holes are aligned. Screw in the four provided screws into the holes. Your fan is now ready to be used.

Handling your fan

Your Vulcan stove fan can be picked up by the blades when idle. This is particularly useful if the stove is still hot. If removing from the stove make sure it is placed on something that can withstand the heat.

Using your fan

Once your stove is up to temperature place the Vulcan stove fan onto the stove. Wait until the base of the Vulcan stove fan has heated (this should take only a few minutes) and then gently flip the fan clockwise, with enough force to allow the blades to rotate a few times. The fan will start to rotate slowly at first but will gain momentum. It sometimes requires a few attempts to get the stove fan going. The higher the temperature of stove the faster the fan will operate. The surface temperature of the stove should be at least 150 C (300F).

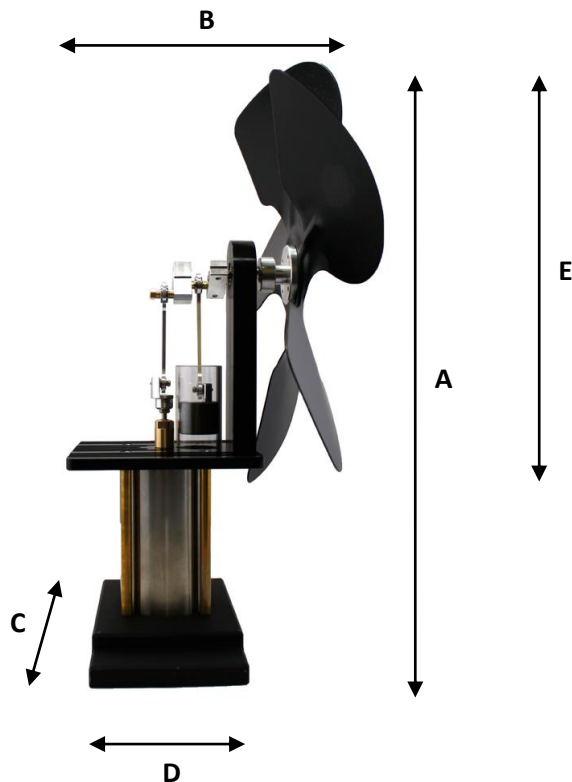
What does it do?

The Vulcan stove fan is a Stirling engine powered fan that quietly and efficiently circulates warm air from your wood stove, coal stove or other heat source, through your home or workshop dramatically increasing the effectiveness of your heating appliance and improving your comfort level. No longer will you have to stoke your stove to blazing hot temperatures only to end up with a VERY hot area in the direct proximity of your stove and mildly warm air across the room. The Vulcan stove fan helps to uniformly circulate the air, leaving you a cozy, comfortable atmosphere to enjoy while reducing the amount of fuel your appliance consumes. In addition, the Vulcan costs you absolutely nothing to operate!

How does it work?

The Vulcan stove fan does not require any electricity whatsoever! No batteries. No mains electricity. The Vulcan is self powered just from the heat of the stove. It utilizes a small, quiet Stirling cycle power plant built into the fan. The Stirling cycle power plant obtains its power from rapidly heating and cooling the same volume of air. When the air is heated, it expands, pushing a piston upward; when the same volume of air is rapidly cooled, it contracts, pulling the same piston downward, providing power. The same volume of air is heated and cooled at a very rapidly converting the heat energy to mechanical energy used to turn the fan blade.

The Vulcan's fan speed increases relative to the temperature increase of its heat source. So, the hotter your stove, the faster the Vulcan will run and the higher the volume of air circulated. The Vulcan stove fan uses the latest and best technology, including borosilicate glass cylinder, graphite piston and ultra low friction demagnetised bearings to ensure it is completely maintenance free. You never have to oil it !



A	Overall height:	30.8cm (12.125 inches) †
B	Overall width:	25.4cm (10 inches)
C	Base width:	15.4cm (6 inches)
D	Base height:	7.7cm (3 inches)
E	Fan diameter:	25.4cm (10 inches)
	Weight:	1.15Kg / 2.53lbs

† 33.5cm (13.25 inches) on versions pre May 2010