

## PowerFlue Chimney Exhaust Fan

The PowerFlue Chimney Exhaust Fan has been designed to create the correct situation for wood and coal burning stoves, open fireplaces, bread and pizza ovens, pellet stoves, bio burners and other solid fuel appliances where the existing flue or chimney does not allow for the correct performance of the appliance.

The PowerFlue, designed and built in the UK, incorporates the latest external rotor motors that, through the unique compact design produce more power while using approximately half the electricity of traditional motors. They also run cooler than traditional motors prolonging the life of the motor.

The unique eight bladed paddle type fan blade creates a draft that draws up the fumes and dispels them through 360 degrees with the fumes hardly touching the blades, so the efficiency of the fan is not diminished over time.

Where possible all parts of the PowerFlue are manufactured from stainless steel that does not rust over time. The compact design of the motor and fan blade enable the height of the PowerFlue to be just 30cm in diameter, 20cm high and weighing to just 6.4 kilos. This makes the PowerFlue easy to carry to a chimney top and not unsightly when installed. The stainless steel may be painted, if required without effecting the guarantee.

The PowerFlue is supplied with a spigot, to be attached to the base of the fan, in five diameters: 125mm, 150mm, 175mm, 200mm and 225mm. These spigots go inside the chimney or flue to hold the PowerFlue in place. It makes the PowerFlue very simple and quick to install and in twelve years no PowerFlue has ever been dislodged in a gale or storm.

The kit supplied with every PowerFlue includes approximately 20 metres of flex, a variable speed controller, a junction box to be fitted to the fan and flue dilution spacers. The dilution spacers are fitted just below the fan (between the spigot and the fan) to allow cool air to be drawn into the system, helping to prolong the life of the fan motor without effecting the performance.

## Some questions we have been asked:

### **What size should be ordered?**

Just measure the internal diameter, or dimensions of your chimney or flue.

### **Does the PowerFlue extract heat?**

Yes, but only the minimum to ensure all fumes are exhausted.

### **Can the PowerFlue be installed inside the chimney?**

No.

### **Can the cable be run inside the chimney?**

No. The flue temperature may well melt the cable covering and expose live wires.

### **Can the PowerFlue be turned off while the fire is alight?**

Yes, but only on flues of 4 metres or more. It is recommended however, that the PowerFlue is left running at the slowest speed as this helps to keep the motor cooler and prolong the life of the motor.

**What is the shortest chimney on which a PowerFlue can be fitted?**

The minimum recommended length is 3 metres.

**If it rains, will water still go into the chimney?**

Only a little, as the PowerFlue also acts as a rain cap.

**Is the PowerFlue noisy?**

No, it is almost silent. The only noise you might hear at higher speeds is wind noise.

**Where should the fan speed control be installed?**

As close to the appliance or fireplace as convenient.

**What is the weight of the PowerFlue?**

6.4 kilos.

**What are the dimensions of the PowerFlue?**

Height above top of chimney 20cm. Maximum diameter 30cm.

**How powerful is the PowerFlue?**

The PowerFlue is capable of removing 3400 cubic metres of air an hour (56 cubic metres of air a minute). This is a misleading figure as it is calculated without there being any restriction on chimney diameter or construction; masonry, steel, bends, etc., all of which can restrict the flow. The design of the PowerFlue fan blade creates the maximum draw (or suction) at the slowest speeds.