



Outdoor venting for SL1S



JPMakesStuff

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Summary

Because some smells deserve the great outdoors



3.73 hrs



3 pcs



0.20 mm
0.15 mm



0.40 mm



PET



42 g



Prusa
MK3/S/S+

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Tags: [fan](#) [ventilation](#) [vent](#) [sl1s](#) [sl1speed](#)

These are parts to connect another inline fan to 2" PVC for venting the SL1S printer.

Connection should look like this...

SL1S printer > [Fan mounting backplate for SL1S](#)

into...

"SL1S fan gate adapter.stl" ([see files section](#))

into...

a [2" flex hose](#)

into...

"SL1S fan gate adapter.stl" (same as above, so print 2, [see files section](#))

into...

a [60mm Fan](#)

into...

"Gate with 60mm fan tapered hole.stl" ([see files section](#))

and get the other parts from [2" Sch 40 PVC Blast Gate](#)

and optionally [Gate remix](#)

and optionally "Gate switch mount.stl" ([see files section](#))

into...

2" PVC pipe to the great outdoors

Done!

NOTE 1: Air flows better (easier) when using "long turn 90deg elbow" rather than other 90deg turns (this is the same reason why hot water heaters that are vented with a powered fan into PVC pipe explicitly say how many long turn 90deg elbows are allowed, to both prevent fan burn-out and ensure exhaust gases make it all the way out) An alternative is to use two 45deg elbows.

NOTE 2: Condensation (due to inside/outside temperature differential) may form in your 2" pipe to the outside, for this reason you should NOT 90deg angle directly into the gate (and thereby into your printer) because that's where the water will end up! Rather, use a T connector, as you do with normal plumbing, so the water falls to the bottom of the pipe where you can relieve it with a screw-on cap or other valve. See crude drawing.

Model files



sl1s-fan-gate-adapter.stl



gate-with-60mm-fan-tapered-hole.stl



gate-switch-mount.stl

Print files



gate-with-60mm-fan-tapered-hole_02mm_petg_mk3s_.gcode

PET 0.40 mm 0.20 mm 1.91 hrs 26 g Prusa MK3/S/S+



sl1s-fan-gate-adapter_02mm_petg_mk3s_1h16m.gcode

PET 0.40 mm 0.20 mm 1.26 hrs 13 g Prusa MK3/S/S+



gate-switch-mount_015mm_petg_mk3s_34m.gcode

PET 0.40 mm 0.15 mm 0.56 hrs 3 g Prusa MK3/S/S+

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