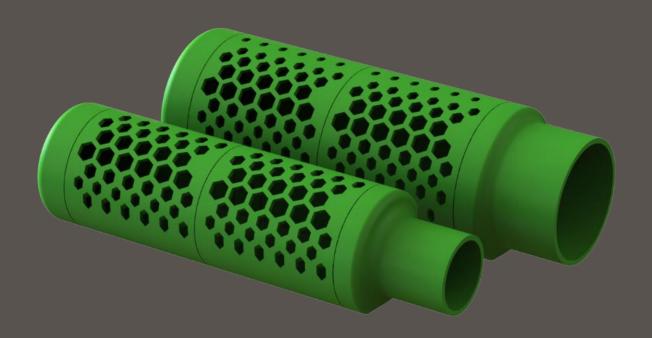
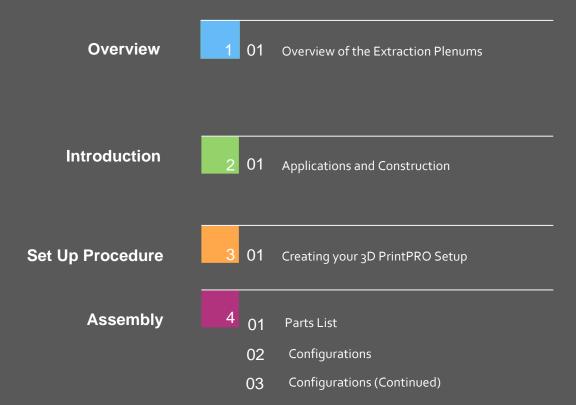
3D PrintPRO Extraction Plenums User Manual



Contents

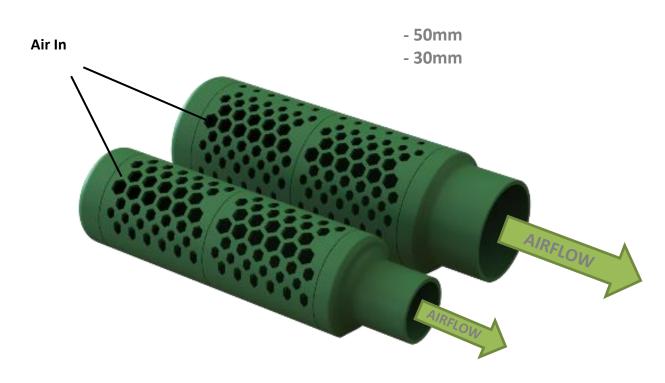


Overview



01

Inlet Plenum





Application



01

These BOFA designed inlet and outlet plenums are a new accessory to the 3D PrintPRO 2 and 3D PrintPRO 3 extraction units.

The inlet and outlet plenums are available in 50mm and 30mm versions for use on BOFA hose kits.

The inlet and outlet plenums differ slightly in their design because of their roles. The inlet plenum features hexagonal perforations along its face to aid extraction while the outlet plenum features a slot in its top face to direct the exhausted air to form a column of filtered air.

Both plenums have been designed for the user to print and assemble themselves. The plenums are split into four pieces and can be adjusted in length to suit the printer by simply adding or removing middle sections. Each piece is a push fit connection allowing for easy assembly. The files needed to print the plenums can be found on the BOFA website or are available by request.

Extraction Only (3D PrintPRO 2)

The inlet plenum is an ideal addition to the 3D PrintPRO 2 extraction unit. The plenum will capture fume generated during the 3D printing process. The extraction unit will filter the air before exhausting it through perforations at the base of the unit. Unlike the 3D PrintPRO 3, the PrintPRO 2 is not capable of operating a recirculating extraction system. An outlet plenum cannot be fitted to the 3D PrintPRO 2.

Recirculating System (3D PrintPRO 3)

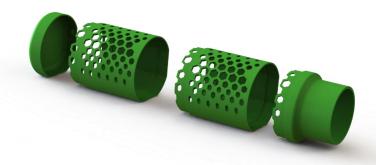
The 3D PrintPRO 3 can be fitted with both an inlet and outlet plenum making it capable of operating a recirculating extraction system. This unit can be fitted with both manifolds.

The fume is extracted from the working area using the inlet manifold.

The fume is filtered as it passes through the BOFA extraction unit before being put back into the operators

breathing zone by the outlet plenum creating a recirculating system.





Setup Procedure



01

Creating your 3D PrintPRO Setup

There are many ways to create your 3D printer setup depending on the extractor unit model and the type of hose kit it has been supplied with.

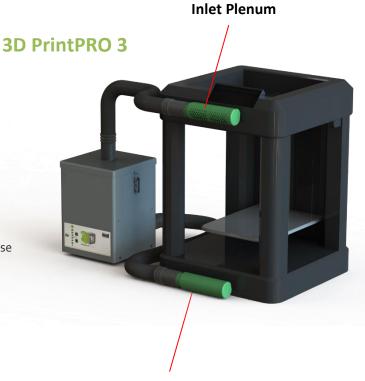
A hose kit range has been specifically designed for the 3D PrintPRO extraction range. If your hose kit features a flexible length of hose, double sided tape will be supplied and will need to be used to fix the plenums to the desired location on the printer.



Double sided tape will not be required when the hose kit is equipped with a stay-put length of tubing. The stay put tubing can be positioned in a number of ways and will retain its position.

The inlet plenum needs to be positioned as close to the printing area as possible without disrupting the operation of the printer or fouling on any moving parts. The outlet needs to be placed where it will exhaust air into the operators breathing zone and where it will not interfere with the printing process.

The locations of the plenums are ultimately the decision of the user but please see the images below with examples of 3D PrintPRO setups.

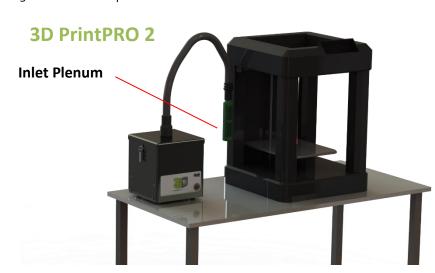


Outlet Plenum

Inlet Plenum



Outlet Plenum



Assembly



01

Parts List

Please see the table below for a complete list of plenum parts to help you create your own plenum.

Part Number	Plenum Type	Description
M0351001	30mm Inlet	Spigot End
M0351002	30mm Inlet	Mid-Section (Long)
M0351003	30mm Inlet	End Cap
M0351004	30mm Inlet	Mid-Section

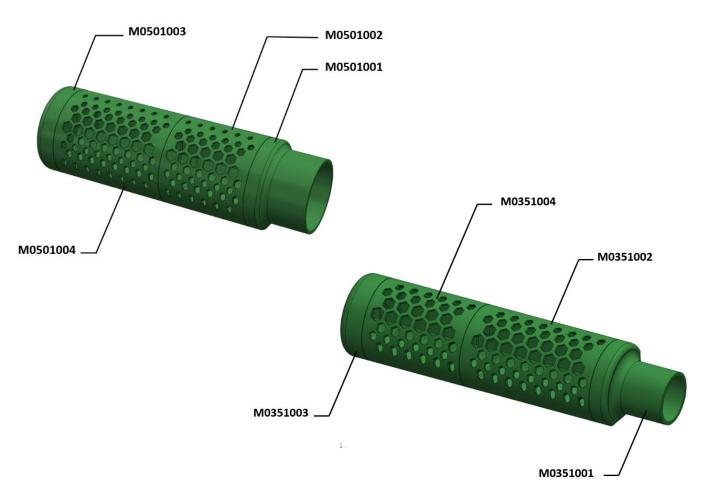
Part Number	Plenum Type	Description
M0352001	30mm Outlet	Spigot End
M0352002	30mm Outlet	RH Mid-Section
M0352003	30mm Outlet	End Cap
M0352004	30mm Outlet	RH Mid-Section (Long)
M0352005	30mm Outlet	LH Mid-Section (Long)
M0352006	30mm Outlet	LH Mid-Section

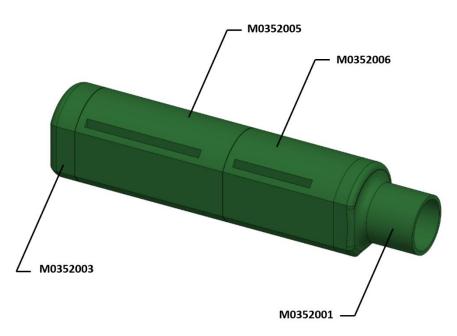
Part Number	Plenum Type	Description
M0501001	50mm Inlet	Spigot End
M0501002	50mm Inlet	Mid-Section
M0501003	50mm Inlet	End Cap
M0501004	50mm Inlet	Mid-Section (Long)

Part Number	Plenum Type	Description
M0502001	50mm Outlet	RH Mid-Section
M0502002	50mm Outlet	LH Mid-Section
M0502003	50mm Outlet	Spigot End
M0502004	50mm Outlet	End Cap
M0502005	50mm Outlet	LH Mid-Section (Long)
M0502006	50mm Outlet	RH Mid-Section (Long)

Assembly



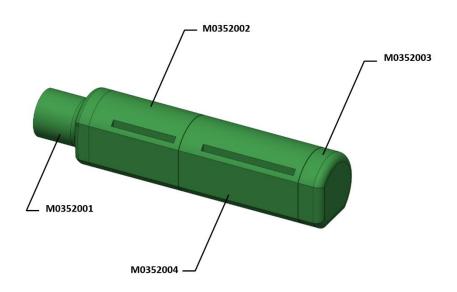


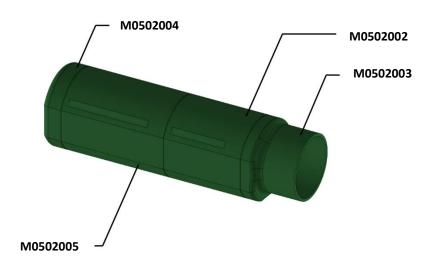


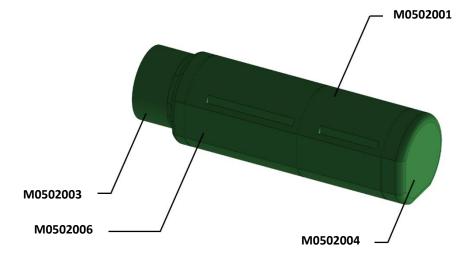
Assembly



03







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