

TOGA® Puri Printer Smart

3D Printer Toxic Gas Purifier

3D Printer Safety Booth









3D Printer Definition and Risk Factors

3D Printer

3D printers are an indispensable technology in the era of the 4th industrial revolution, where you can make prototypes right away by omitting complicated steps from turning ideas into products. It is used in various fields such as medical, IT, art, and elementary, middle and high school education.



3D Printer Dangers

As 3D printers are used in various fields with the advantage of being able to turn ideas into reality, there are many risks due to harmful substances generated from materials when used.

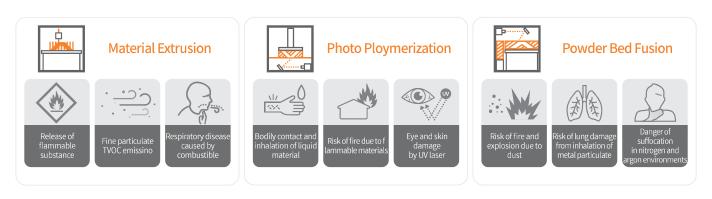




a 3D printer all night at their home.

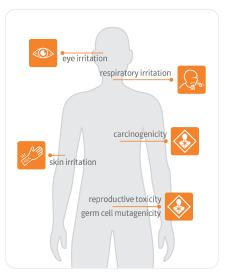


3D Printing Technology Harmful Risk Factors



Risks to the human body by material used in the material extrusion method

Material	Target chemical	CAS No.	PEL (ppm)		Dial
			TWA	STEL	Risks
PLA	Acrolein	107-02-8	0.1	0.3	eye, skin, respiratory irritation
	Toluene	108-88-3	50	150	reproductive toxicity
	Styrene	100-42-5	20	40	Carcinogenicity, Reproductive toxicity, Skin irritation
ABS	Acrolein	107-02-8	0.1	0.3	eye, skin, respiratory irritation
	Toluene	108-88-3	50	150	reproductive toxicity
	Ethylbenzene	100-41-4	100	125	Carcinogenicity
	Styrene	100-42-5	50	40	Carcinogenicity, Reproductive toxicity, Skin irritation
	Phenol	108-95-2	5	_	Germ cell mutagenicity, skin irritation



GT SCIEN 3D Printer Ductless Fume Extractor

What is a 3D Printer Ductless Fume Extractor

Equipment that purifies harmful gases such as ultrafine dust and volatile organic compounds generated during 3D printer use through a filter

Product Features and Functions



Best filter and optimal structure

What is a TOGA filter? A filter for removing harmful gases developed and produced by GT SCIEN Co., Ltd., which is a mixture of three substances: physical, chemical, and neutralization.

TOGA Filter Characteristics



Longer lifespan than general filters



Effective ability to remove harmful gases



Minimize contamination due to re-desorption



No emission of ozone and nitrogen oxides due to side reactions



Provide customized filters for each application



Advantages of ductless construction



Purification of harmful gases from the inside of the purifier with a ductless circulation structure with no outflow or opening of air and dust inside and outside the laboratory



Design considering space utilization and optimal air flow



Improved airtightness by using a molding door to reduce harmful gas emissions to the outside



Specifications

Model No		TOGA-TDS01	TOGA-TDS02			
Product Image						
Dimension	Exterior	760 X 935 X 1,150mm	760x935x1,920mm			
	Interior	650 X 760 X 800mm	ea 650 X 760 X 731mm			
Shelf(Size)		1 shelf (450mm X 450mm)	2 shelves (450mm X 450mm)			
Material		Aluminum Frame, PC Transparent Viewing Window				
Power		AC220V, 60Hz				
Controller		4.3in touch screen (5-step speed control, filter replacement time, display of temperature and humidity)				
Output (W)		72W				
Weight		110kg	150kg			

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