REV E





Grease, Odour & Smoke Control Units



T-UV-C

Combined Electrostatic Precipitator with UV-C

Air Purification Systems I www.trionuk.co.uk

Combined Electrostatic Precipitator with UV-C

Combining electrostatic precipitator technology with UV-C light in a single small footprint unit helps to combat grease, smoke and odour.

Trion offers a range of integrated process technologies for the control of grease, smoke and odour for kitchen ventilation applications.

Combining electrostatic precipitation with UV-C light technology results in the highly efficient removal of grease, smoke and odour in a single unit. The result is a cost effective, small footprint solution which is ideal for a wide range of food service ventilation applications.



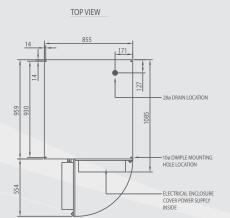
Key advantages of the combined ESP/UV-C system

- Intergrated grease, smoke and odour removal
- Keeps extract ductwork virtually grease free
- Reduced fire risk
- Low cost and limited maintenance requirements
- · Ability of heat recovery due to grease-free air
- Small footprint

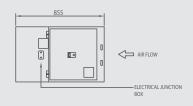
Product Specification - Combined ESP/UV-C

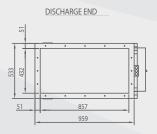
Model	T2002-UV-C	T3003-UV-C
Overall Size	H 533 x W 1085 x L 855mm	H 533 x W 1547 x L 855mm
Capacity Max (95% efficient)	4420 m³/hr	6630 m³/hr
Supply	1 phase/230Vac/5A/50Hz	1 phase/230Vac/5A/50Hz
Power Consumption	Up to 750W	Up to 800W
Weight	92 Kg	130 Kg
Pressure Drop	140 Pa (dirty filters)	140 Pa (dirty filters)

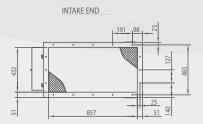
Technical Drawing T2002-UV-C



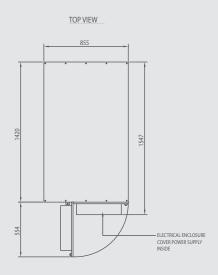




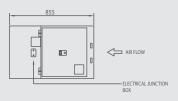


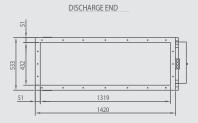


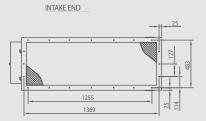
Technical Drawing T3003-UV-C



FRONT VIEW







Combined Electrostatic Precipitator with UV-C

Technical Data T2002-UV-C

	Combined Electrostatic Precipitator T2002-UV-C
Model	T2002-UV-C 'in-duct' combined electrostatic precipitator with integrated UV-C complete and ready for operation
Purpose	Combined ESP/UV-C is designed for the high efficiency removal of grease, smoke and odour in commercial kitchen exhaust applications. It should be placed as close to the kitchen canopy as possible to reduce grease build up in the downstream ductwork. Direction of air flow is to be specified on ordering
Construction	Purpose built unit with access doors on one side for the withdrawal of the filter components. Multiple units can be joined together for increased volume or efficiency
Dimensions	533H x 1090W x 855D mm
Features & Benefits Filtration	 Integrated grease, smoke and odour removal keeps extract ductwork virtually grease free Stainless steel spiked ioniser blades offer significantly longer life than wire ionisers Extra depth collector cells provide greater collection efficiency Long life UV-C lamps Low pressure drop - 140Pa (dirty) 95% single pass particle removal efficiency (ESP section) Ability of heat recovery due to grease free air Two year parts only warranty, subject to maintenance Each unit incorporates a 4 stage filtration system consisting of: Aluminium pre filter Combined electronic loniser/Electrostatic collector cells Aluminium post filter
Control Lights	UV-C lamp frame containing 6 or 8 high output UV-C lamps On Off switch with indicator lamp.
Technical Data	 On/Off switch with indicator lamp Capacity max - 1.23m³/s Supply - 1phase/230Vac/5A/50Hz Power - <750W Weight - 92kg Pressure drop - 140Pa (dirty filters)
Power Supply	High frequency solid state design
Accessories	Nil
Finish	Blue Epoxy Powder Coat

Maintenance

Trion would recommend:

- Servicing is normally confined to the regular cleaning of the electrostatic filter components (steam or degreasing fluid) and UV-C lamps (detergent followed by isopropyl alcohol)
- The aluminium pre-filters require washing when dirty
- For maximum efficiency establish a regular cleaning cycle based on routine checks of the ionisers, collector cells and UV-Clamps during the first few months of use

Technical Data T3003-UV-C

Combined Electrostatic Precipitator T3003-UV-C		
Model	T3003-UV-C 'in-duct' combined electrostatic precipitator with integrated UV-C complete and ready for operation	
Purpose	Combined ESP/UV-C is designed for the high efficiency removal of grease, smoke and odour in commercial kitchen exhaust applications. It should be placed as close to the kitchen canopy as possible to reduce grease build up in the downstream ductwork. Direction of air flow is to be specified on ordering	
Construction	Purpose built unit with access doors on one side for the withdrawal of the filter components. Multiple units can be joined together for increased volume or efficiency	
Dimensions	533H x 1547W x 855D mm	
Features & Benefits Filtration	 Integrated grease, smoke and odour removal keeps extract ductwork virtually grease free Stainless steel spiked ioniser blades offer significantly longer life than wire ionisers Extra depth collector cells provide greater collection efficiency Long life UV-C lamps Low pressure drop - 140Pa (dirty) 95% single pass particle removal efficiency (ESP section) Ability of heat recovery due to grease free air Two year parts only warranty, subject to maintenance Each unit incorporates a 4 stage filtration system consisting of: Aluminium pre filter Combined electronic loniser/Electrostatic collector cells Aluminium post filter 	
	UV-C lamp frame containing 6 or 8 high output UV-C lamps	
Control Lights	On/Off switch with indicator lamp	
Technical Data	 Capacity max - 1.84m³/s Supply - 1phase/230Vac/5A/50Hz Power - >800W Weight - 130kg Pressure drop - 140Pa (dirty filters) 	
Power Supply	High frequency solid state design	
Accessories	Nil	
Finish	Blue Epoxy Powder Coat	

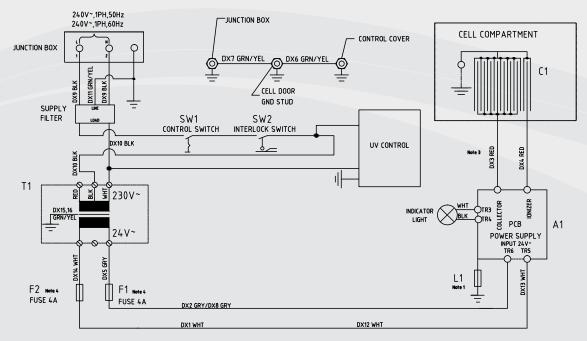
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Combined Electrostatic Precipitator with UV-C

Wiring Detail - T2002-UV-C

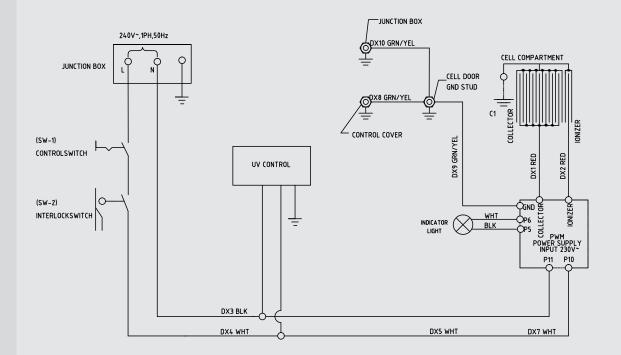


Note 1: Connect L1 between solder side of PCB & cabinet earth Note 2: Chassis of transformer must be connected to cabinet Earth

Note 3: Cell voltages must be value +/- 500v when connected to the cells

Note 4: All fuses should be time delay / anti surge type

Wiring Detail - T3003-UV-C



Notes





Air Boss® Model 75

Learn more about other Trion industrial products by contacting your local Trion representative or by visiting us on the web at

www.trionuk.co.uk.





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