1.0 PROPOSED SYSTEM

Fan Rescue was asked to carry out a site survey and put together a proposal for the kitchen extraction system at 18 Camden Road, London, NW1 9DP.

Kitchen extraction/ filteration&Odour control system /make up air system

Above the cooking equipment a new 2400mm long X 1000mm Wide stainless steel canopy, manufactured in 304 grade with external dull polish grain, internal stainless steel filter housing to removable/washable stainless steel baffle type grease filters which are highly efficient at grease removal . Under side of the canopy , stainless steel wall cladding will be fitted.

From the canopy 500mmx500mm ductwork will connect to a electrostatic precipitator unit, T2002 ( see attached technical information ) The T2002 will then be connected to a carbon filter unit with a disposable pre-filter G4, recommend to be replaced once every 3-4weeks depends on usage (see attached information) and 50kg of active carbon (1no. 24x24x24" extra duty Carbon block) to remove odour, Carbon cells mounted / housed in the external duct riser, with a dwell time of 0.1 to 0.5 sec, disposable replaced every 12 months (see attached for technical information ) . The carbon unit will then be connect to a Acoustic boxed 10amp Centrifugal extract fan unit Model Torin DDC270-270, using flexible connectors on each side of the fan ( see attached fan information ) , which will be mounted on to a anti vibration unit .The ductwork from the fan Unit will exists the rear of the building and terminate via discharge louvre grill flush with the external wall, as showing on the drawing.

Ductwork system will have access points every 1500mm centres for future duct cleaning and manufactured and installed subject to in accordance with DW 144/171 specifications.
The noise level from the proposed extract system will not exceed 5db(a) below Background level when measured at any nearby residential window.

Make up air will be provided by a Non motorised system Via louver grill which will be fitted to the existing window as shown on the drawing.

We hope this is of assistance and await your further instruction.

Yours sincerely

Irfan Nakip

Operation Director

# VL4-2424

V Line Panel Filter 24x24x4

## Description/Application

V Line - Disposable pleated panel filters

**Description**

Disposable pleated panel filter made with both a water resistant card frame and retaining face. The V Line panel filters use a flame retardant, 100% thermally bonded polyester filter media backed with an expanded galvanised steel mesh.

**Application**

General heating and air-conditioning.
As a pre-filter to bag filters.

## Specification

**EU Grade**

G4

**Efficiency (>95%)**

5 Micron

**Capacity**

Rated Capacity (CFM): 2018

Rated Capacity (M³/hr): 3430

**Resistance**

Initial Resistance: 1"/25MM: 40Pa 2"/50MM: 40Pa 4"/95MM: 40Pa

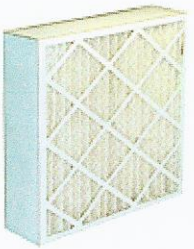
Final Resistance: 1"/25MM: 150Pa 2"/50MM: 150Pa 4"/95MM: 150Pa

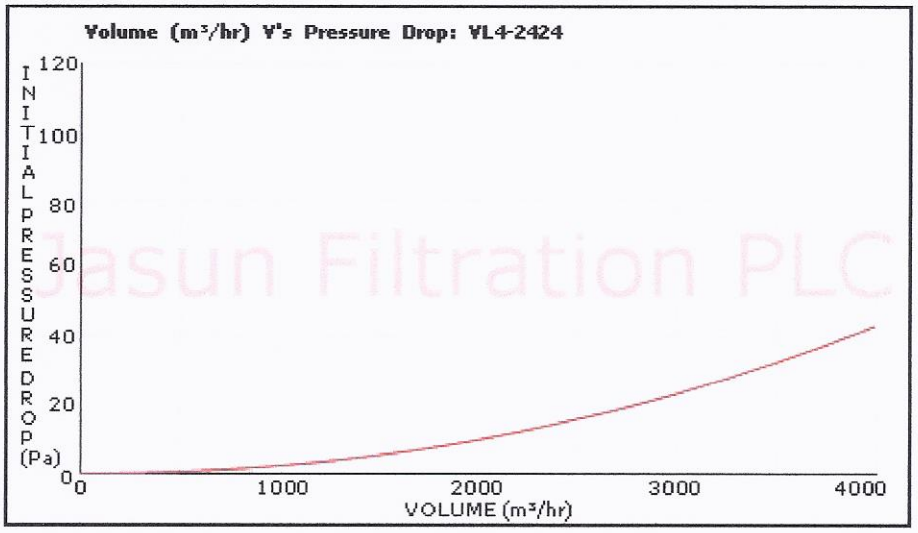
## Dimensions

Nominal (Inches): 24x24x4

Actual (mm): 594x594x95

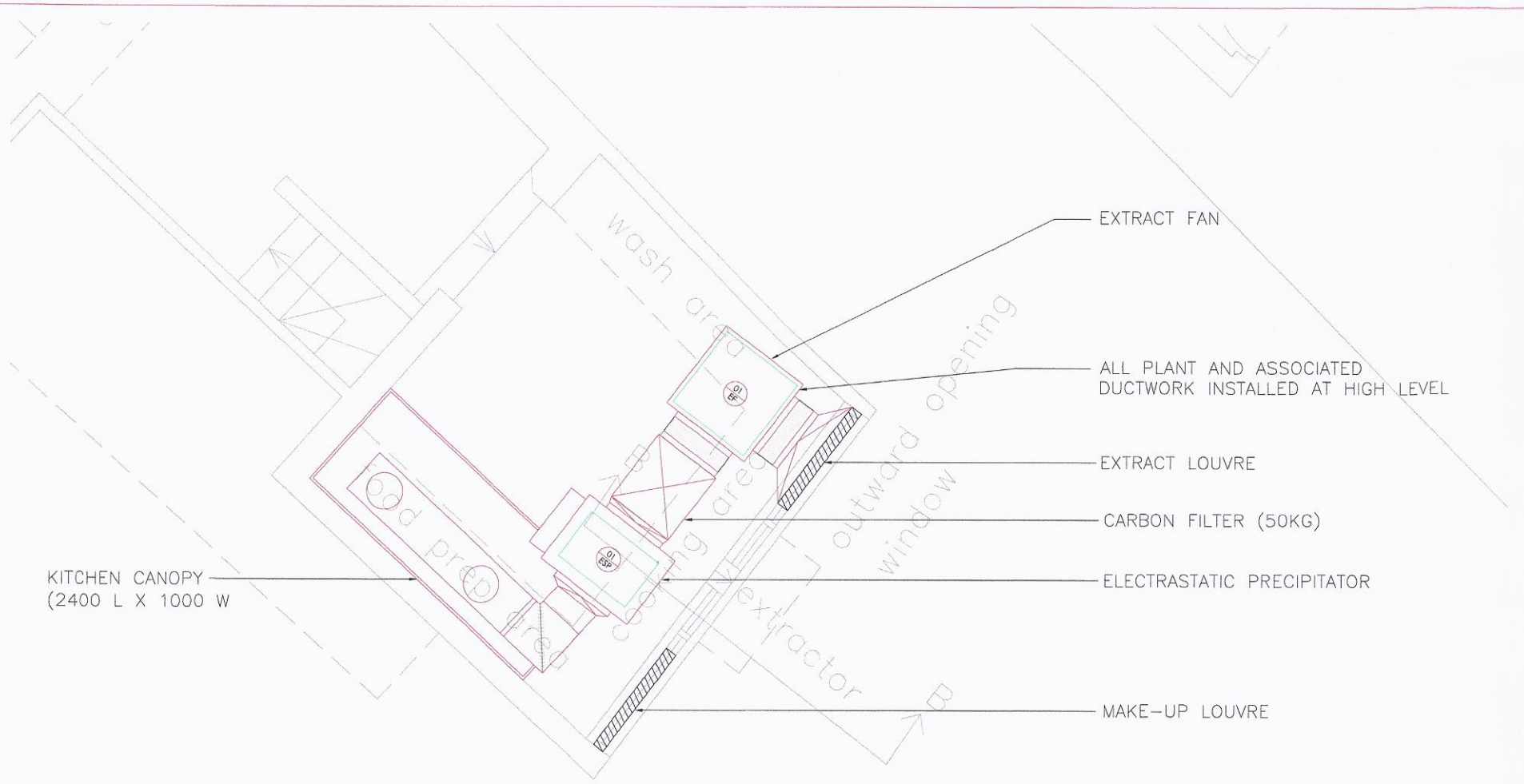
## Visual








JASUN FILTRATION PLC
Riverside House. Parrett Way. Colley Lane. Bridgwater. Somerset TA6 5LB




# LAYOUT

ORIG LOCATION -



NOTES

1. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY, AND CHECK ALL DIMENSIONS ON SITE.

| Rev | Date | CAD | Chkd | Description |
|---|---|---|---|---|

Project
18 CAMDEN ROAD, LONDON NW1 9DP

Drawing
KITCHEN VENTILATION SYSTEM

FAN RESCUE LTD
BATH HOUSE, PETERSFIELD ROAD
WHITEHILL, HAMPSHIRE
GU35 8BU
TEL 01420 477 570
Email: enquiries@fanrescue.co.uk

| Scale | Size | Engineer | Date |
|---|---|---|---|
| 1:25 | A1 | IN | 19.03.14 |

Drawing No. FR-18CR-M001 Rev P1

# T2002

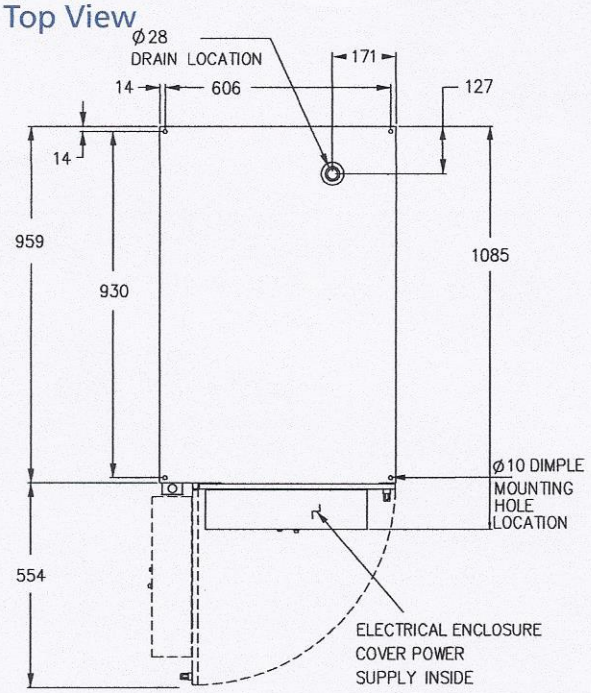
## Air Boss® T-Series

TRION
Air Purification Systems

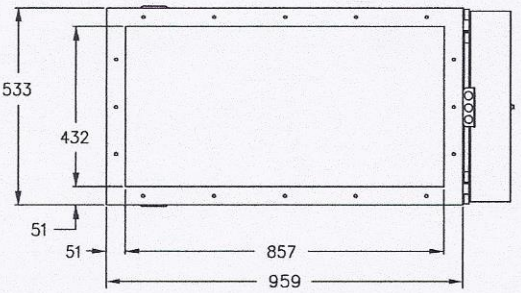

| T2002 | |
|---|---|
| **Dimensions** | 635L x 1085W x 533H mm |
| **Installation** | Free Standing, Wall or Frame Mounted |
| **Unit Weight** | 80 kg |
| **Input Voltage** | 230Vac/1phase/50 Hz |
| **Cell Power** | 50 watts |
| **Output Voltage** | 12 kV/6 kV |
| **No of cells** | 2 |
| **Cell Weight** | 15 kg |
| **Air Volume** | up to 4420 **m³/hr** |
| **Controls** | On/Off Switch with Indicator |
| **Pre-filter** | Aluminum Standard Mesh (2 Req.)<br>(Optional Impinger) |
| **Primary Filter** | Electronic Ioniser/Collector Cell |
| **After Filter** | Optional Disposable Charcoal After Filter |
| **Power Supply** | High Frequency Solid State Design |
| **Efficiency** | To 95% Based on D.O.P. Test Method<br>To 99% for Double Pass (Calculated) |
| **General** | Multiple Units Can Be Joined Together for<br>Increased Volume Or Efficiency |

*Note: Units can be stacked in configurations up to 17680m³/hr.*
*Multiple Units can be Joined Together For Increased Volume or Efficiency*

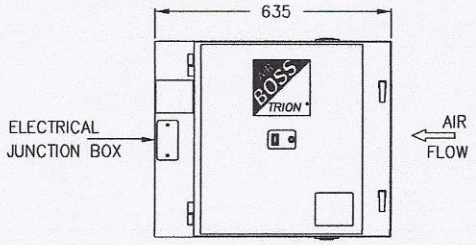
### Top View



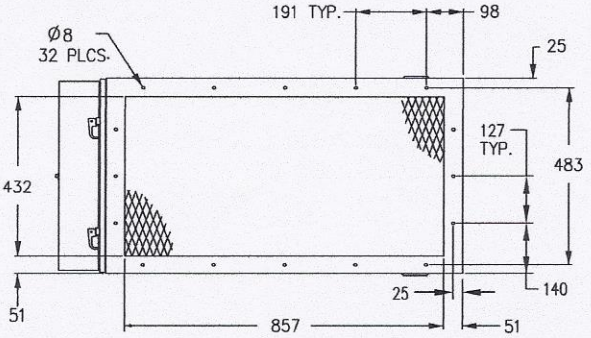

### Discharge End




### Front View




### Intake End




Trion® *a division of Ruskin Air Management Ltd.*
The Cavendish Centre | Winnall Close | Winchester | Hampshire, UK. | SO23 0LB
P: +44 1962 840465 | F: +44 1962 828619 | www.trioninc.com | TrionEMEAservice@airsysco.com

## FAN DATA SHEET

| | |
|---|---|
| Manufacturer: | Torin |
| Model: | DDC270-270 |
| Dimensions: | 400 wide x 450 long x 460mm high |
| Motor Rating: | 0.75 kW |
| Supply: | 240/50/1 phase |
| Full Load Current: | 8.5 amps |
| Air Performance: | 1.2 m3/s @ 340 Pa |
| | 0.4 m3/s @ 500 Pa |
| Speed Controller: | NFS10 |