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**'NP WSM 314/2020 (Re-Issue) - NEGOTIATED PROCEDURE FOR THE DESIGN, SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF AIR TREATMENT PLANT(S) AT THE THERMAL TREATMENT FACILITY IN MARSALA, MALTA' and CFT CA Unique ID 'WSM 314/2020 (Re-Issue)**

CSO Group Reference Q6840A – 25/03/2021

## **Terminodour Technical Data**

### **Incinerators Waste marshalling and shredder areas.**

#### **Scope of Proposal:**

To design, manufacture and supply a Terminodour odour control system to handle the odours in the building.

We have excluded the Terminodour distribution ductwork, in the event of contract we will prepare CAD drawings of the duct, (design is included in our pricing here), for you to source locally.



#### ***Terminodour AHU***

## Operation: Terminodour

To operate effectively, the Terminodour system relies on an enclosed space to contain the ionised air and odours with minimal uncontrolled ventilation paths to atmosphere. However, the client should ensure that there are some leakage paths, so that the building does not become pressurised.

The air is filtered by sand/salt traps, then washable filters and drawn into the reactor, across the fan and into the distribution ductwork which runs around the room at high level and has droppers with diffusers at nominal 3m spacing, to disperse the ionised air.

The Terminodour system design has been prepared based on reducing odours present. From experience, the Terminodour system can reduce odour loads by greater than 80% within 1.5m of the odour source and greater than 90% within 3m.

We have allowed for our standard control panel in a glass fronted IP65 weatherproof kiosk, no allowance has been made for telemetry if at all required.

## Technical Data: Terminodour AHU – Incinerators Area

No of AHU's	1
Air Flow Rate	4.16 m <sup>3</sup> /s
Material	304 SS
Fan type	Belt driven backward curved
Fan arrangement	Duty only, non-ATEX rated, with boxed spare
Fan power requirement	7.5 kW
Ionisation power requirement	300 W
Length, width, height	4390 x 1600 x 1800 H mm approx
Weight	1500 kg approx
Location	External
Sand/salt eliminator	Plastic blades with 304 SS frame
Filter type	Washable (Duty/Standby) with SS frame
Filter Grade	G 4
Ionisation reaction section	6 off CSO T6 ion modules
Differential Pressure Switch	1 off non-ATEX rated

**Technical Data: Terminodour AHU – Autoclave room air.**

No of AHU's	1
Air Flow Rate	9.1 m <sup>3</sup> /s
Material	304 SS
Fan type	Belt driven backward curved
Fan arrangement	Duty only, non-ATEX rated, with boxed spare
Fan power requirement	11.0 kW
Ionisation power requirement	700 W
Length, width, height	4700 x 2220 x 2150 H mm approx
Weight	2500 kg approx
Location	External
Sand/salt eliminator	Plastic blades with 304 SS frame
Filter type	Washable (Duty/Standby) with SS frame
Filter Grade	G 4
Ionisation reaction section	14 off CSO T6 ion modules
Differential Pressure Switch	1 off non-ATEX rated