

Mobile Incinerators 50 to 500kg/hr



MPD144, 350kg/hr

3Ts MPD Range Mobile Incinerators

Since the 1960's trailer mounted incinerators have played an important part in waste management, particularly for remote sites or where temporary waste disposal services may be required.

3Ts offers a range of mobile incinerators with throughput capacities from 50kg/hr up to 500kg/hr on single trailer unit design. The standard units are design can be for normal road use, special models can be supplied for off road use.

All models are supplied fully self contained, with diesel powered generator, fuel storage tank, incinerator with two stage combustion and control system, specially designed and mounted on a single trailer. For larger models a low bed trailer is used. All are under standard European motorway bridge height.

Models except for the MPD35 are offered with or without auto waste ram loading system for automated waste loading, systems can include a bin tipper if required. Pollution control complies with BS3316 1987, less than Ringlemann shade 1, no odour.

Self Contained System

Simplicity of Operation

Proven Technology

Fully Mobile

Specification

Models MPD	Capacity	Trailer Dimensions (mm)				Generator Set KVA	Trailer	Fuel	Noise level Dba 1m	Electrical Spec
	Kgs/Hr	Length	Width	Height from ground	Weight without fuel (kg)		Axel Number	Cons Ave Litre/Hr		
35	50	3550	2300	3100	1850	15	2	9.0	65	IP65
72	250	7540	2500	3100	2980	20	2	15.0	68	IP65
144	350	10550	2900	3750	29000	25	3	20.0	68	IP65
288	500	12450	3000	3900	35000	30	4	35.0	70	IP65
500	500	15275	3000	4200	45000	40	4	54.0	70	IP65

Capacities are based on a waste CV of 12Mj/kg (Typical domestic or general waste)

Special Models:

3Ts can design and manufacture bespoke mobile units for capacities of 1 tonne and 1.5 tonne/hr, details and prices available upon request.



MRC2 mobile Rotary incinerator

Incinerator Design and Construction:

Incinerator design is a two stage combustion system, a primary chamber and a secondary chamber for high temperature pollution control, operating at up to 1000°C and a flue gas residence time of 1.0 second.

The incinerator casing is constructed of HR14 mild steel plate welded and bolted construction, with a specially designed refractory lining suitable for mobile plant, combining a flexible and light weight ceramic fibre and conventional high grade castable refractory's throughout.

Standard units are manual batch loading, waste is loaded via a large full width loading door, which also serves as the de-ash and clean out access. Auto waste ram loading systems with a bin tipper can be supplied as an option.

Burners are supplied as standard suitable for diesel fuel oil, but can also be supplied for PLG if required. The systems have automatic controls with 24 hour timers to allow safe unattended operation; the control system is a failsafe design.

Wiring allows for generator operation or connection to local power supply if available, the same is engineered for the fuel system.

The system includes a diesel powered generator set, all prewired arranged with battery start and operating from the central fuel oil storage tank.

The flue outlet is a side mounted duct which incorporates an air dilution unit for flue gas cooling; final exhaust temperature is typically 380 to 400°C. There is no requirement to assembly or dismantle a chimney on 3ts mobile units.

All units are fully test fired prior to dispatch and are ready for use. Manufactured in the UK in accordance with ISO9001 quality assurance standards.

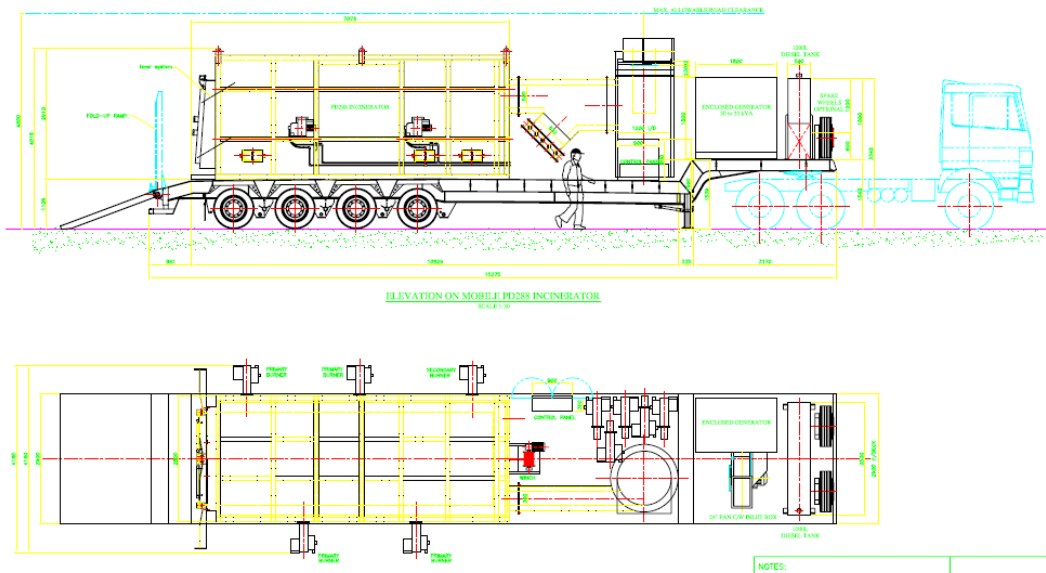
Trailer Construction:

Each model has a carefully selected trailer with air cushion suspension, double triple and four axles as required, depending on the unit's weight and size. Trailers are braked design supplied with a spare tyre and wired for normal road compliance lighting. Trailers have modified reinforced heavy duty beds and a drop down tail gate at the rear.

Site and operator requirements:

A level area to be located, fuel diesel, Storage tank should be filled before the mobile units, leaves its depot.

The small capacity mobile incinerator will require one trained operator and one labourer, the larger models (MPD72, MPD144 and MPD288) will require one trained operator and two labourers plus an HGV driver.



MPD288 mobile incinerator GA.

Operator Training:

As with all our products we offer operator training courses for three levels, basic operator, Technical operator and manager, and maintenance training.

Waste Residue:

From all incineration processes there is a residue or ash which remains after the incineration process, this is typically between 4 to 7% of the original volume and will require disposal to land fill. Ash from 3ts mobile units is subjected to high temperature and should be inert and safe to dispose of to landfill.



Mobile unit control panel

The Mobile Incinerator:

A tough application which requires experience and design capability to ensure incinerators are durable, reliable and safe to operate. Most have simply put a standard unit on to a trailer, with little thought for the actual application. 3Ts has developed mobile units over a long period and has perfected the combination of well thought out design and a combination of special refractory lining. Without compromise to pollution control standards 3Ts mobile incinerators offer a reliable clean and safe waste disposal system for all environments and climates.

Applications include:

- Oil Exploration Camps.
- Military camps.
- Waste contractors and service providers.
- Emergency response facility.
- Waste services for Bio Hazard control.

Waste types:

- General waste consisting of type 1, 2 and 3 waste.
- Animal Carcass.
- Waste oil (special feature).



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