



**Addfield Environmental Systems Ltd**  
**Proposal for:**  
**Holly Sanders**

**International leaders in**  
**Manufacturing world-class**  
**Cremation solutions**

**addfield**  
Incinerate • Cremate

**Date:** Tuesday, 07 January 2020

**Addfield Environmental Systems Ltd Proposal for:**  
Addfield PET200 animal cremator

**Quotation Reference:** PET200I07/01/20/01

Dear Sir,

Thank you for contacting Addfield Environmental Systems Ltd, it was great to hear from you. From the information you have provided, please find enclosed our commercial quotation for the Addfield PET-200.

Thank you again for your valued enquiry, do not hesitate to contact me if I can be of any further assistance.

Should you require any further assistance. You can reach me on

Yours Sincerely,

Mr James Grant  
**Business Development Director**  
Email: [jamesg@addfield.com](mailto:jamesg@addfield.com)  
Tel: +44 (0) 7805 668815

## 1. PRICING SCHEDULE

Equipment	Quantity	Unit Price	Total
<b>Addfield PET200 Cremator - Diesel</b>	1	£18,474.50	£18,474.50
<b>Incidental and Consumable Spares 1 year - Diesel</b> <i>More information below</i>	1	£639.75	£639.75
<b>Recommended Options</b>			
<b>Additional Chimney Sections</b> <i>More information below</i>	0	£385/m	0
<b>Ash Processing Machine</b> <i>More information below</i>	1	£1595.00	£1595.00
<b>Hydraulic Lift Table</b> <i>More information below</i>	1	£1300.00	£1300.00
<b>Fuel Tank 1000L</b> <i>More information below</i>	0	£1250.00	£1250.00
<b>Delivery and Commissioning</b>			
<b>Delivery</b> <i>DAP - door to door(Northampton)</i> <i>Customer to supply on site lifting equipment.</i>	1	£450.00	£450.00
<b>Training &amp; Commissioning</b> <i>On site, UK</i>	1	Free of charge	0
<b>Total</b>			

**Manufacturing time:** 16 Weeks  
**Country of Origin:** Great Britain  
**Payment Terms:** Payment Terms 50% on order, 50% prior to dispatch  
**Quote Validity:** 30 days

## 2. ADDITIONAL COMPONENTS

### 2.1. Additional Chimney Extensions.

Where required the chimney can be extended further according to the customer's requirements. The standard height of the machine with a supplied chimney is 3660mm from floor.

**Price: £385 / per 1000mm**

### 2.1. Ash Processing Machine

The complete solution for pet cremation. Post processing of remains is essential to ensure a refined ash format is provided for the end user.

- It is an advanced pulverization system that is quiet, dust free, and shuts off automatically.
- The remains are powdered into a fine ash in less than 30 seconds. This fine ash is then suitable to give back to the pet owner.

**Price: £1,595.00**



### 2.2. Hydraulic Loading Lift Table

Allows for safe and considerate manoeuvring of pets from stores/vehicles to the cremation unit. Lockable wheels and height adjustable, the trolley is specifically designed to reduce the effort required for transportation.

**Price: £1300.00**



### 2.3. De-ashing Tools

The perfect accompaniments to the cremator. The tools consist of a metal rake and ash box.

**Price: Free of charge**

### 2.4. Fuel Tank (Diesel/Oil Powered Only)

A 1000 litre bunded (double skinned to 110%) fuel tank. Supplied complete with:

- Lockable fill point with screw cap.
- Vent point.
- Oil tank contents level indicator.
- Overfill prevention capability.
- Bottom outlet.

This fuel tank satisfies or exceeds all applicable oil storage tank requirements detailed within:

- The Control of Pollution (Oil Storage) (England) Regulations 2001
- The Control of Pollution (Silage, Slurry and Agricultural Fuel Oil) Regulations 1991
- Environmental Alliance Pollution Prevention Guidelines PPG 2

**Price: £1,250.00**

### 3. SPARES AND SERVICING PARTS

The following lists give an indication of the required level of spares that would be required for a twelve-month operating period and which should be held by the client.

Incidental Spares (1 year) - Diesel (AG-2B-IG)	
Item	Recommended Stock Level
Thermocouples TCTHD-253MA-230	1
Combustion Burner MAX12DB	1

### 4. COMMISSIONING, DELIVERY & AVAILABILITY

#### 4.1. Time On Site & Commissioning:

We anticipate that it will take 1 days to commission and train personnel on how to use the incinerator. We have allowed for commissioning costs within the quotation.

Where applicable please ensure lifting equipment is available on site for construction of the chimney stack (If you are unsure please ask). Please refer to the pre-site check list for this machine, prior to its arrival. This can be found here:

Machine only: <https://drive.google.com/open?id=138YNNvcYR2OgRKfur1rS4ujkXw3wVcodp>

#### 4.2. Delivery Information

The unit will be delivered on a standard 40ft trailer, please ensure there is adequate access for this type of vehicle. The customer will need adequate lifting equipment to unload the machine, please ask if you require additional onsite lifting equipment, as this can be organised at additional cost.

## 5. PLANT DUTY & UTILITIES

### 5.1. Plant Duty

<b>Cremator type:</b>	Addfield PET200 Cremator	
<b>Solid Waste types:</b>	Domestic pets	
<b>C.V. range:</b>	3MJ/Kg to 15MJ/Kg	
<b>Design C.V:</b>	12 MJ/Kg	
<b>Design throughput:</b>	Upto 6-7 animals per day	
<b>Thermal capacity:</b>	360Kw	
<b>Operating regime:</b>	Upto 6 hours per day Upto 7 days per week Upto 52 weeks per year	
<b>Maintenance regime:</b>	15 minutes every 10 <sup>th</sup> burn	
<b>Overall availability:</b>	90%	
<b>Design criteria:</b>	BS3316 Secondary Chamber residence time 2 seconds at 850°C	
<b>Operational Data:</b>	<b>Primary Chamber</b>	
	<b>Temperature range:</b>	700°C to 950°C
	<b>Secondary Chamber</b>	
	<b>Temperature range:</b>	850°C to 875°C
	<b>Oxygen Content:</b>	6% to 12%
	<b>Residence Time:</b>	Minimum 2 seconds

### 5.2. Plant Utilities

<b>Electricity Consumption:</b>	
<b>Supply:</b>	240v, single phase, 50 Hz
<b>Capacity:</b>	16 Amps
<b>Anticipated usage:</b>	0.5 kW/hour
<b>Diesel Consumption:</b>	
<b>Fuel supply</b>	Light Fuel Oil / Diesel

## 6. MACHINE OVERVIEW

At Addfield we pride ourselves on manufacturing high quality cremation equipment. Addfield's machines are most robust reliable and thermally efficient cremators available on the market today. It is also CE Certified and compliant with the most up to date EU legislation.

### Key Identifiable features include:

40% more fuel efficient compared to alternative modules.  
Fully computational fluid modelled  
Steel thickness of 8 & 10mm  
Three layers of refractory insulations  
180mm of refractory thickness  
Equipment that lasts 2-3 times as long  
Plug and play control system

### 6.1. Primary Cremation Chamber

- Brick lined to optimise thermal efficiency, pre-fired 1600°C
- Three layers of refractory lining with an industry-leading 180mm of insulation
- Easy to maintain

### 6.2. Secondary After Chamber

- Two second gas retention time
- Fully refractory lined and insulated
- Thermal insulation rated up to 1430°C

### 6.3. Steel Work

- The main structure is fabricated from a robust 8mm and 10mm thick steel
- Internal surfaces protected with a tough acid-resistant coating
- Fully seam welded, creating a non-spill, banded construction

### 6.4. Exterior Finish

- Painted in a highly durable, weather-resistant, two-pack paint system that is baked on at 70°C

### 6.5. Combustion Systems

- 1x Primary chamber burner
- 1x Secondary chamber after burner
- 1x Hot hearth chamber after burner

Both burners incorporate an integrated adjustable combustion air fan and adjustable fuel pressure dials. The burners boast environmentally friendly low noxious emissions, with pulse firing capabilities to save fuel and maintain optimum Cremation temperatures

### 6.6. ELECTRICAL SYSTEMS

- Weather resistant, IP65 rated. In accordance to BS7671 17th edition.
- 220v -240v, single phase 50-60Hz - 13-16 amp power supply required.

### 6.7. Control Systems

- Addfield advanced PLC controlled.
- User friendly, rugged, heavy duty and plug and play.

### 6.8. Chimney

- Robust, chamber mounted fabricated mild steel sections, extendable

### 6.9. General

- One ash removal rake and box

## 7. PLANT OPERATION

### 1 Pre-Heat

On selection of start program the secondary burners ignite and operate at full fire until achieving an adequate secondary chamber temperature of 850 deg.C. During Pre-Heat all other plant functions are disable. Once the temperature at the outlet of the secondary chamber is adequate as monitored by the secondary chamber thermocouple the control system will switch to “Burn” cycle.

### 2 Burn Cycle

This is the period during which the domestic pets can be introduced into the Primary Chamber for cremation. The interlocks on the primary chamber door prevent the flame from firing. Upon opening the pets can be loaded directly onto the hot hearth.

This procedure is repeated throughout the course of the working day until all of the available all of the animals has been introduced or until time constraints limit the availability of operating personnel. At this time the Burn Down Cycle can be initiated either by the operator or automatically by the control system, should the plant be left unattended.

### 3 Burn Down

This sequence inhibits further loading but continues the operation of the primary chamber burners and combustion air injection for a pre-set time period. This ensures the last animal of the day is broken down to an ash. Following the time period, the control system will automatically initiate the cool down sequence.

### 4 Cool Down

Initiated automatically this sequence controls the staged shut down of the plant in order to cool the chambers in preparation for complete shutdown. Initially, the primary chamber burners are extinguished followed by the secondary burners after a pre-set delay period. Once all the burners are extinguished the chambers will begin to cool to their safe temperature levels after which the whole plant will come to rest. The cooling process is aided by the continued injection of both combustion and burner air however, the safe temperature levels are set reasonably high to ensure economical preheating periods on the subsequent days operation.

### 5 De-ashing

De-ashing is undertaken throughout the day. Access is gained via the manual door, the ash residues are raked from the primary chamber hearth, either manually in to the supplied ash box.



## 8. ADDITIONAL INFORMATION & TERMS

### 8.1. Exclusions

VAT, duty and local taxes where applicable.

All Civil and Building Work, including all roof or wall penetrations

The provision and connection of the electrical supply to the cremator termination point

The provision and connection of the fuel supply to the cremator termination point

Additional chimney height if required

All equipment quoted as optional

Anything not specified

### 8.2. Quality Assurance

The company operates an ISO 9001-2015 compliant Quality Assurance System.

(Certificate can be found here: <http://www.addfield.com/pdf/Addfield-ISO9001-Certificate.pdf>)

### 8.3. CE Compliance

Our machines are stamped and CE compliant to:

- BS E7N4 6-2:1997 (Industrial thermo processing equipment - part 2)
- 73/32/EEC Low voltage directive
- 89/336/EEC EMC Compatibility Regulations
- 89/392/EEC Machinery Directive.

### 8.4. Aftercare Support

We pride ourselves on the build quality of all of our machines. Every machine Addfield manufactures is built on the foundations of robustness, reliability and efficiency. As such, every machine is supported with a 12 month unlimited usage warranty.

Because we are available almost 24 hours day by various channels including onsite visits, telephone, email, Skype and more, if you do require assistance, then we are readily available to help.

(For further information on warranties please refer to [www.addfield.co.uk/warranty](http://www.addfield.co.uk/warranty))

### 8.5. Health & Safety

The company has a complete Health and Safety Policy which covers the company responsibilities to its employees. The system is updated on a regular basis and audited during the course of the year.

### 8.6. Safety Training & Insurance

It is company policy to ensure that employees are properly trained in safety matters and understand the importance of accident prevention methods. Addfield implements a training programme that is fully reviewed annually in order to ensure that all of our Client's requirements are met. Our insurance covers the company for: Public Liability £5 million & Employers Liability £10 million.

### 8.7. Terms & Conditions

Our standard terms and conditions of sale apply to this quotation.

## 9. ADDFIELD ENVIRONMENTAL SYSTEMS LTD



### 9.1. About Addfield

Addfield are worldwide industry leaders in the design and manufacturing of thermal processing equipment.

With 60,000sq/ft. of production facility space Addfield manufacturer 100% of the machines on site and employ a wide variety of highly skilled fabricators, welders, refractory mason, electricians and combustion engineers. This allows us to ensure the quality of the product throughout the production line.

With over 30 years of experience within the Incineration industry, Addfield have the technical ability to deliver the machine for your application.

An award-winning company that is ISO9001-2015 and 14001 certified, DEFRA type approved and CE certified. We pride ourselves on building the most robust, reliable and efficiency machines on the market, which are **simply built better**.



Assuring you of our close attention at all times,

For and Behalf of:

**Addfield Environmental Systems Limited**

Mr James Grant

**Business Development Director**