

ADAMENT REFRACTORY SETTINGS LTD

REFRACTORY ENGINEERS (367171)

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OUR STANDARD RANGE OF CREMATORS TO COMPLY WITH THE NEW VERSION 2.2 'ANIMAL BY PRODUCTS' GUIDANCE PRODUCED BY DEFRA

(Minimum 2 second residence time of gases @ 850°C within secondary chamber)



Our great asset as a company is our continuous experience in the human and animal cremation industry since 1972 (the company was formed 90 years ago). Not only do we manufacture new thermal units but we also undertake renewals and repairs of all makes and models in the industry. Therefore we can see the advantage and disadvantages of the whole range of UK models and advice on the unit best suited to your needs. We can also provide help regarding general DEFRA, planning & licensing compliance.

Undertaking our essential works at our premises and delivering a turnkey unit for connection to services on site by local suppliers can minimize our costs. We can also happily undertake these site works at

extra cost. We never leave clients without support and back up and we will supervise and can provide training if required.

We are happy to provide solutions in liaison to customer requirements and provide the extra cost of increased sophistication on a particular unit. Our aim is to provide excellent value products in a method that allows the client to have clear identifiable costs with a choice of fuel use.

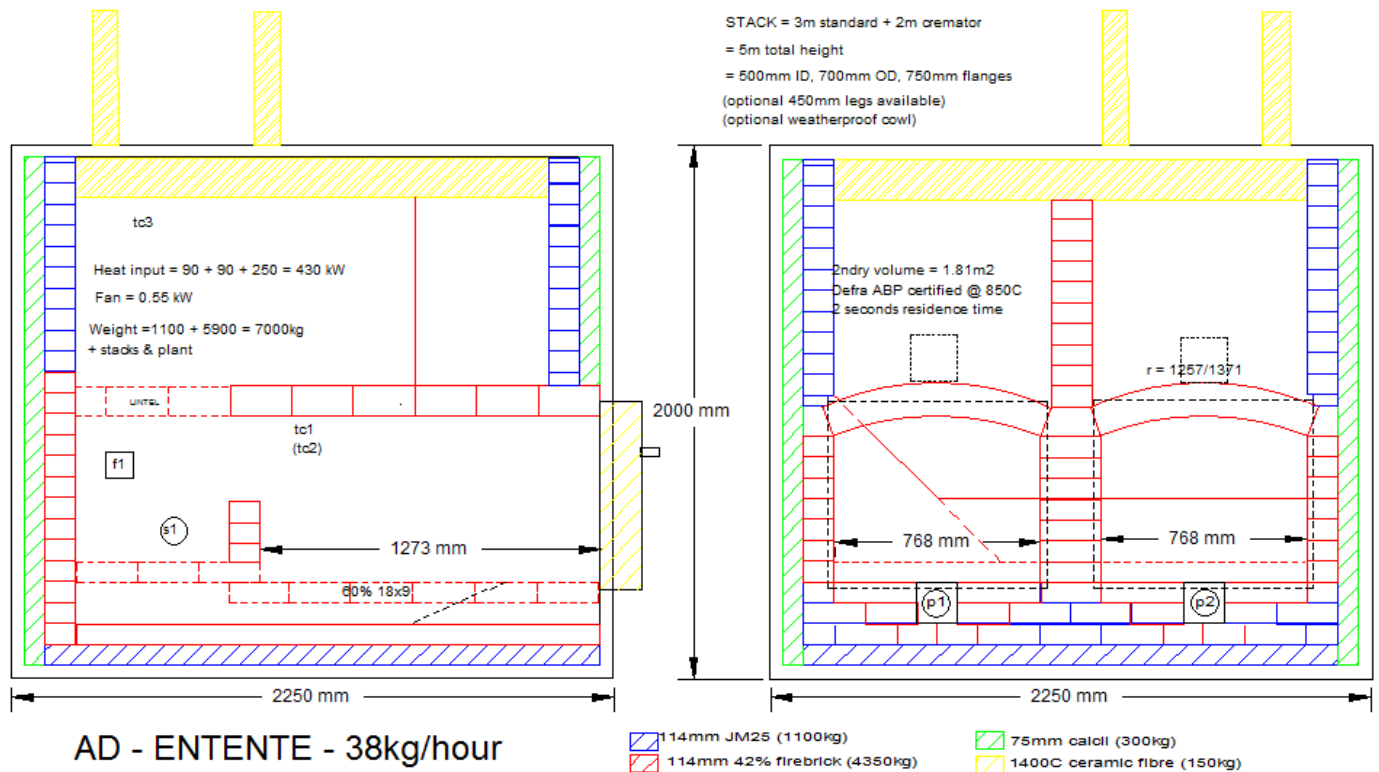
We have full specifications for the units listed overleaf and we would be happy to receive your requirements or your own design requirements. The information listed below is a summary of our standard model range. The smallest takes only small domestic type animals and the largest will take horses & cows. Further information is available on request.

As a guide to fuel consumptions – units work at full power for preheat times & then operate at half power for cremations (dependent on calorific value of cremations) (see below for comparative energy price websites)

<http://www.energy.eu/> http://www.biomassenergycentre.org.uk/portal/page?_pageid=75,59188&_dad=portal

1m3 of Natural Gas	@ £0.43	=	10.7kW (38.52MJ)	=	£0.04 per kW/m3
1 litre of 35 dec diesel (0.83kg)	@ £0.75	=	12kW (43.2MJ)	=	£0.063 per kW/litre
1 litre of kerosene (0.79kg)	@ £0.58	=	10.35kW (37.26MJ)	=	£0.056 per kW/litre
1 litre of Propane LPG (0.51kg)	@ £0.65	=	7.1kW (25.56 MJ)	=	£0.09 per kW/litre

AD-ENTENTE



38kg/hr	7000kg	
Fuel (430kW input)	Natural gas	
Electrical supply	240-1-50 (13A) connection	
W x L x H (cm)	2250x2250x2000mm (2 DOOR)	(painted with heat resistant paint)
M/s Ash can		
M/s Ash rake		
Hearth	1273x768x600	(1400C refractory lined)
Chimney id/od	3m x 500/700 + 50mm flanges	
Chimney extension	per 0.6m section (above std. 3m)	
Chimney cowl	(drawing, roof angle & joists = ?)	
Chimney mounted rear	100mm 1400C ceramic lining	
Door opens to right	& door sight glass	
Control panel – wired	on left hand side of cremator	
3 off Cal 3300	temp controllers	
Door limit switches	Turns off primary when open	
Burner controls & displays	& door limit switches	
Primary burner 1.75gph	Riello G10 (continuous run fan)	
Secondary burner 5gph	Press GBV (continuous run fan)	
Tertiary fan	0.55kW air fan	
Venturi fan & jet	Suction fan	Not required on standard straight chimneys
3 off thermocouples	400x18 K-type	
Spare thermocouples		£66 if required

Building works	(slab, roof & access)	
Installation on site	Of cremators, cowl and stack	
Hiab transport	(back load basis incl. crane)	
Fire safety system	isolates fuel supply automatically	
3 Tigerloops & isolators	Deaerator filter (single pipe)	
Commissioning, dry out	& training	



Belief system - We believe in providing low cost, quality equipment & to provide honest and the best economic service available. This is why supply our standard specification that includes the following;

Riello burners – proven, bestselling & most widely available parts network in Europe

RS components – electrical parts available direct through 32 countries (world's largest network)

We also supply a full parts list & wiring diagrams so you can order quickly and cheaply & not be reliant on overpriced manufacturer's spares, using local tradesmen, if that is your choice.

If we undertake installation, commissioning and training of the cremators, we will also instruct upon maintenance issues and basic fault finding techniques should the need arise. In the vast majority of cases, we can diagnose any issues that arise over the telephone due to our use of simple, reliable, proven and standardised equipment.

For busy crematoria, the hearth and entrance brickwork usually needs replacing every 2 to 3 years and a full reline every 4 to 6 years. However we have known customers with lower workloads doubling these timescales between repair intervals. If refractory is maintained properly, the steelwork life should be 20+ years. Electrical equipment, motors, burner components and parts should have a lifespan of between 5 and 15 years and a fully interchangeable and replaceable.

Methodology –

To aid the client, a door closed and burner fault indicators on the control panel & continuous run burner fans are included. There is a lock off isolation switch and emergency shutdown/fuel safety capability incorporated into the control panel for connection if required.

We have tried not to over complicate the control equipment but still retain the control you require;

- 1** Turn on fuel, power supply & control panel. Set timer (up to 9 hours)
- 2** Turn on secondary burner & preheat to temperature (close air fan damper?)
- 3** Set primary burner temperature (press & hold * & the up or down arrow as required. Reset timer
 - (A Large and or fat dog = 550°C)
 - (B Medium dog = 650°C)
 - (C Small dog or cat = 750°C)
- 4** Load animal over trough & turn on primary burner (If A turn on air fan & adjust damper to suit)
(If A - turn off primary burner & cover inlet if required by high secondary temperature indication) (On multi chambered cremators – load chambers consecutively)
- 5** When body fat combustion is complete, turn off fan and increase primary burner temperature.
- 6** Rake ashes into trough to clean with primary burner & then cool & remove.

(Reload) = repeat from step 3)

(Cool down) = Turn off burners & cool down to 500°C then turn off fuel, power supply & control panel.