

ARAVALI THERMAL



ISO 9001:2008CO.



INCINERATOR

ARAVALI THERMAL



ARAVALI THERMAL is an ISO 9001:2008 certified company having state of the art manufacturing facilities. We are the pioneer manufacturers of Pollution Control Equipments including incinerators.

We manufacture following types of incinerators:-

- a) Bio-medical Waste Incinerator
- b) Industrial Waste incinerator
- c) General Waste Incinerator
- d) Poultry Waste Incinerator
- e) Municipal Waste Incinerator
- f) Paper Waste Incinerator
- g) Pharmaceutical Waste Incinerator

We manufacture Incinerators according to the type of waste as per the standards, guidelines, rules & regulations of Pollution Control Boards/Authorities.

Our production range starts from 10 kgs/hr and goes upto burning capacity of 400 Kgs/hr.

The Incinerators are available in fuels like Oil, Gas, Electricity. We undertake the work on turnkey basis covering supply, installation commissioning and testing.

Aravali Thermal Incinerators are manufactured as per Double Chamber design on controlled air basis, containing Primary Chamber and Secondary Chamber. The Primary Chamber is fitted with the burner for burning of waste material and the Secondary Chamber is fitted with separate burner for burning of flue gases. The air pollution control device is fitted to control the parameters and standards within the prescribed limits. The Incinerator consist of Primary Chamber, Secondary Chamber, Scrubber, Electric Control Panel, FD Fan, ID Fan and Stack of suitable height.

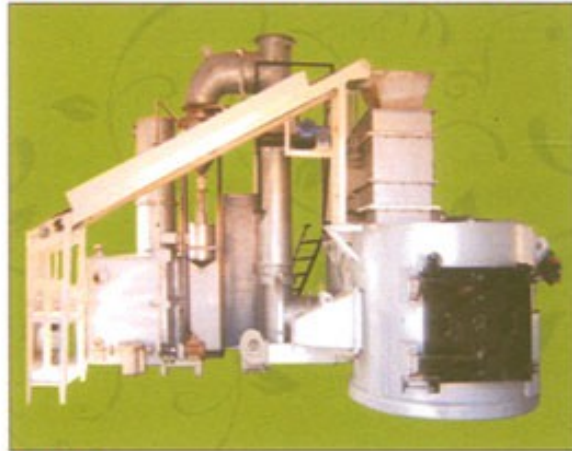
The Incinerators are designed as per the standards, guidelines and norms prescribed by the Central Pollution Control Board in India. We also manufacture incinerators as per European norms and standards. The raw material, components and parts used for incinerator are of good quality & of reputed makes.

The entire manufacturing process is carried out as per ISO standards.

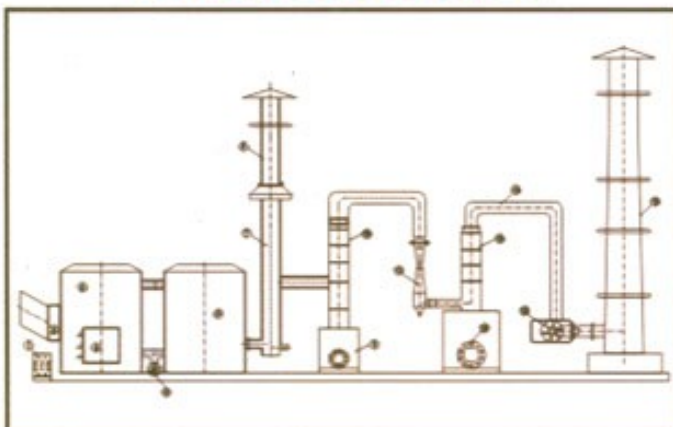
ARAVALI THERMAL



INCINERATOR WITH VENTURI SCRUBBER



FLOW DIAGRAM



1. Control Panel
2. Primary Chamber
3. Auto Feeding Door
4. Manual Feeding Door
5. F.D. Fan
6. Secondary Chamber
7. Interconnecting Duct
8. Emergency Stack
9. Quencher System
10. Venturi Scrubber
11. Re-Circulation tank
12. Droplet Separator
13. Duct from Droplet Separator to ID Fan
14. ID Fan
15. Chimney

MODELS / CAPACITIES GENERAL WASTE / MEDICAL WASTE

MODEL	CAPACITY
AT-GW-10 / AT-BMW-10	10 Kgs/hr
AT-GW-25 / AT-BMW-25	25 Kgs/hr
AT-GW-50 / AT-BMW-50	50 Kgs/hr
AT-GW-75 / AT-BMW-75	75 Kgs/hr
AT-GW-100 / AT-BMW-100	100 Kgs/hr
AT-GW-150 / AT-BMW-150	150 Kgs/hr
AT-GW-175 / AT-BMW-175	175 Kgs/hr
AT-GW-200 / AT-BMW-200	200 Kgs/hr
AT-GW-250 / AT-BMW-250	250 Kgs/hr
AT-GW-300 / AT-BMW-300	300 Kgs/hr
AT-GW-350 / AT-BMW-350	350 Kgs/hr
AT-GW-400 / AT-BMW-400	400 Kgs/hr

ARAVALI THERMAL



Auto Feeder



Venturi Scrubber



Burner



ID Fan



SPECIAL / OPTIONAL FEATURES OF ARAVALI THERMAL INCINERATORS

1. Highly efficient
2. Space saver
3. Eco-friendly
4. Skid mounted
5. Low running/ maintenance cost
6. Fully automatic
7. Easy maintenance
8. Easy operation
9. Design as per pollution board standards
10. Refractory lining as per pollution control board standards suitable for temperature up to 1400 degree centigrade.
11. PLC based control panel
12. Display / recording online
13. Available in oil fired / gas fired / electric fired
14. Double chamber controlled air design
15. Available with air pollution control device
16. Fitted with automatic on/off burners

APPLICATIONS

Hospitals



Pharmaceuticals



Automobiles



Paints



Poultry



Paper



Hazardous



Leather



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ARAVALI THERMAL



NOZZLE



IGNITION
TRANSFORMER



FUEL
PUMP



CONTROL
BOX



ELECTRIC
MOTOR

READY AVAILABILITY OF ALL PARTS & ASSURED AFTER SALE SERVICE

AIR HEATERS OIL/GAS/ WOOD FIRED



DARH

HOT AIR HEATER - OIL FIRED

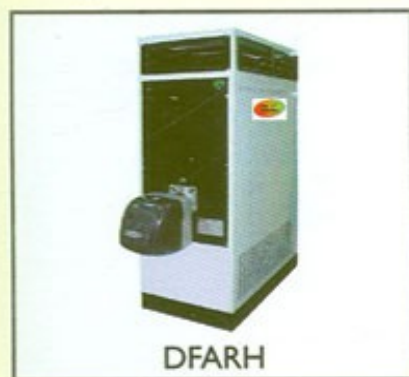
SERIES	DARH
CAPACITY	25,000 KCAL/HR TO 10,00,000 KCAL/HR
FUEL	DIESEL/KEROSENE/LDO
TEMPERATURE	40 °C to 250 °C



GARH

HOT AIR HEATER- GAS FIRED

SERIES	GARH
CAPACITY	25,000 KCAL/HR TO 10,00,000 KCAL/HR
FUEL	LPG/CNG
TEMPERATURE	40 °C to 250 °C



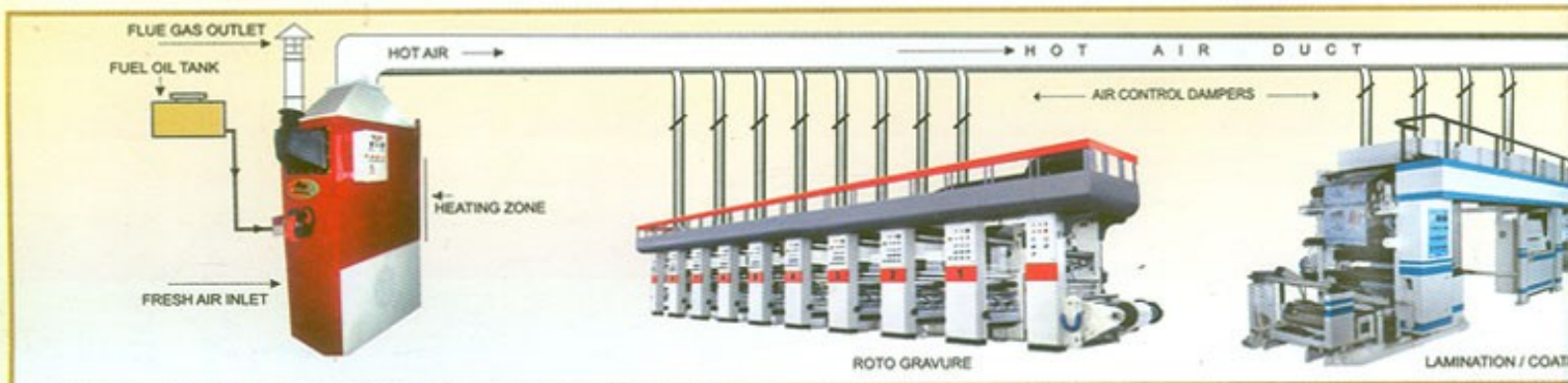
DFARH

HOT AIR HEATER- DUAL FUEL

SERIES	DFARH
CAPACITY	25,000 KCAL/HR TO 10,00,000 KCAL/HR
FUEL	OIL/GAS
TEMPERATURE	40 °C to 250 °C

ALSO AVAILABLE (OPTIONAL)

- With VFD based control panel
- With High static pressure centrifugal blowers
- With Modulating burners
- With Dual Fuel burners
- With Double stage burners
- With flow meter/Hour meter/Speed meter





HOT AIR HEATER- HORIZONTAL MODEL

SERIES	HARH
CAPACITY	25,000 KCAL/HR TO 10,00,000 KCAL/HR
FUEL	OIL/GAS
TEMPERATURE	40 °C to 250 °C



HOT AIR HEATER- CYLINDRICAL MODEL

SERIES	CARH
CAPACITY	25,000 KCAL/HR TO 10,00,000 KCAL/HR
FUEL	OIL/GAS
TEMPERATURE	40 °C to 250 °C



HOT AIR HEATER- WOOD FIRED/COAL FIRED

SERIES	WARH/CWARH
CAPACITY	25,000 KCAL/HR TO 10,00,000 KCAL/HR
FUEL	WOOD/COAL
TEMPERATURE	40 °C to 150 °C

- NOTE :**
- * We reserve the right to change the specifications/design at any time without prior notice.
 - * Single phase 220V upto 50,000 Kcal/hr models are also available. Ambient Temperature assumed as 30°C.
 - * Motor/system efficiency can vary depending on requirement of user application.
 - * Max Hot Air Temperature 250°C.
 - * Electric Supply 415 6%, 50Hz 3%, 3 Phase, 4 wire
 - * Thermal Efficiency 92% ± 2%.



SALIENT FEATURES

**90%
EFFICIENCY**

**SPACE
SAVER**

**HIGHLY
ECONOMICAL**

**EASY
MAINTENANCE**

APPLICATIONS

- Rotogravure Printing
- Coating
- Adhesive Tapes
- Pharmaceuticals Drying
- Leather Drying
- Textile Drying
- Paint Booth
- Coconut/Fibre Drying
- Flexo Printing
- Lamination
- Aluminium Tapes
- Carpet Drying
- Tumbler Drying
- Food Industry
- Central Heating

STRUCTURAL FEATURES:

ARAVALI THERMAL Air Heaters are highly efficient, economical and compact in sizes with minimum maintenance/running cost. The Hot Air Generator consists of air heater body which is fabricated out of mild steel duly insulated from inside, combustion chamber fabricated out of stainless steel, automatic oil/gas fired burner, centrifugal blower, control panel, electric motor, pulleys and belt etc. The centrifugal blower is fitted at the bottom or at the top as per customer's requirement depending on the outlet of the hot air. A flame viewing port with glass is provided on the opposite side of the burner. The assembly/fitting and testing of the Air Heaters are carried out as per International Standards.

CENTRIFUGAL BLOWER:

The blowers are DIDW backward curved /forward curved centrifugal type. We use imported/indigenous blowers of reputed make like Kruger/Nicotra etc. The blowers are statically and dynamically balanced as per AMCA standards. The blowers are fitted with bearings of imported make. The fans are highly efficient and noiseless.

BURNER (OIL/GAS BURNER):

We use imported/indigenous burners as per customers requirement. The make of imported burners are FBR, Benton, Blowtherm, Sookook, Riello etc. The burners are fitted with electrical motors, blowers, fuel pump, sequence controller, ignition transformers, photocell, nozzels etc. We use imported components from different countries ie Landis and Gyr (Germany), Coffee/fida (Italy), Suntec (France), Danfoss (Denmark)

CONTROL PANEL:

The control panel is fitted with accessories like contactors, relays, MCB, temperature indicator cum controller of reputed makes like Larsen&Toubro Ltd/ABB and Siemens. The electric motors are of NGEF/Siemens/Crompton, Bharat Bijli and ABB.

TECHNICAL SPECIFICATION OF OIL FIRED AIR HEATERS

DESCRIPTION	UNIT	DARH-25	DARH-50	DARH-100	DARH-150	DARH-200	DARH-300	DARH-400
HEAT OUTPUT CAPACITY	kcal/hr	25,000	50,000	1,00,000	1,50,000	2,00,000	3,00,000	4,00,000
EQUIV. ELECTRIC LOAD	Kws	29	58	116	174	232	348	464
PROCESS AIR FLOW AT STP (1.2 KG/M3 AIR DENSITY)								
	M3/hr (80°C)	1950	3850	7500	11550	15000	22000	30000
	M3/hr (120°C)	1050	2150	4250	6500	8500	12500	16500
	M3/hr (150°C)	850	1600	3350	4500	6400	9000	12500
MAX FUEL CONSUMPTION (HSD)	kg/hr	2.70	5.4	10.5	16	22	33.5	43.50
TOTAL ELECTRIC LOAD	Kw	1.75	2.5	4	6	8	12	16
TEMPERATURE CONTROL		← AUTOMATIC →						

ARAVALI THERMAL & ENVIRONMENTAL ENGINEERS

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