

BLACKHOLE™
INCINERATORS



Packaged Incinerators

*Make every day an
Earth Day*

NIKA
Total Commitment To Pollution Control

Why should I use Incinerators?

- Incinerators are a sustainable and environment friendly method of disposing hazardous waste.
- Since Incinerators reduce the waste into a fraction of its original size they need smaller disposal area.
- Waste reduction is immediate.

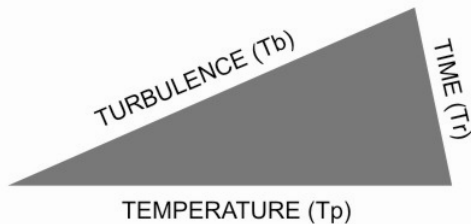
Why BLACKHOLE?

- Conforms to national & international pollution norms - CPCB, USEPA & EU.
- Suitable for a wide range of wastes.
- Fuel option of oil or gas.
- Fully automatic, safe and easy to use.
- PLC based control panel.
- Requires minimum site work and space for installation.
- Shop assembled, Plug 'n' Play type and ready for instant use.
- Castable and joint less refractory ensures longer life and durability.
- Equipped with ample number of safety interlocks.

What is Incineration?

The answer lies in the triangular puzzle. This triangle is an isosceles triangle with two equal and one unequal side. The three sides represent the 3Ts of incineration i.e. Time, Temperature and Turbulence. If one side is decreased then there has to be compensatory increase in the other two. A perfect balance between all three has to be maintained for successful incineration.

And **BLACKHOLE** incinerators have achieved this perfect balance - $1100^{\circ}\text{C}(\text{Tp}) + 2\text{Sec}(\text{Tr}) + \text{Tb} = \text{BLACKHOLE}$



Understanding BLACKHOLE Packaged Incinerator

BLACKHOLE packaged incinerators are fixed hearth, pyrolytic and controlled air incinerators that have a capacity of upto 50 Kgs/hr.

The procedure of incineration involves feeding the waste through the charging door in the Primary Combustion Chamber (PCC) where the Primary Burner heats it and completely degasifies it under sub-stoichiometric conditions. The gases and volatiles that are formed then proceed to the Secondary Combustion Chamber (SCC) where these are completely incinerated by the Secondary Burner at very high temperature with excess combustion air.

An Ejector cum Combustion air fan provides combustion air to the incinerator and along with the Venturi Ejector maintains negative draft in the incinerator which allows it to be loaded while in operation. The ash leftover in the PCC is sterile and can be removed through the ash removal door.

The Industries We Serve

- Hospital & Blood Banks • Research & Pathological Labs • Hotels, Canteens & Restaurants • Oil Refineries • Chemical Industries
- Pharmaceutical Industries • Tanneries & Slaughter Houses
- Paint Shops • Municipal Corporations • Packaging Industries
- Food Processing Industries



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Our Story!

The Beginning

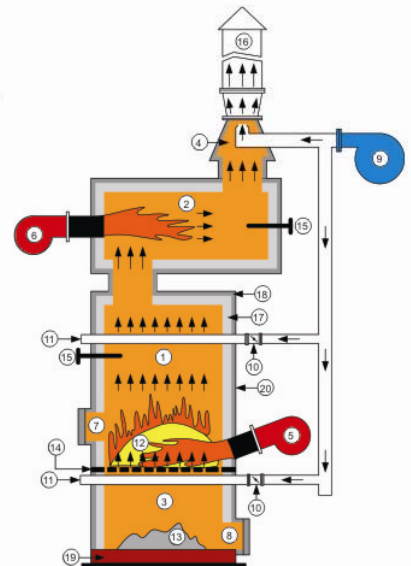
In 1995, Mr. KK Khanna, a mechanical engineer from the prestigious Delhi College of Engineering decided to take up cudgel against environmental pollution. Fusing his passion for green technologies with his concern for the environment, he created Nika Engineers Pvt. Ltd.!

Here he developed waste management technologies to solve the problem of growing biomedical and industrial waste and shrinking landfill sites.

The Story Continues...

More than a decade has passed since, and we have grown bigger with offices in Delhi, Mumbai and Bangalore along with representatives in some Asian and African countries. Our passion for constant innovations, strict quality control, quick and efficient after sales service, has made us one of the most sought after companies not only in India but also abroad.

1. Primary combustion chamber (PCC).
2. Secondary combustion chamber (SCC).
3. Ash collection chamber*
4. Venturi ejector.
5. Primary burner.
6. Secondary burner.
7. Waste charging door.
8. Ash removal door.
9. Ejector cum Combustion air fan.
10. Combustion air control dampers.
11. Combustion air jackets.
12. Waste.
13. Ash.
14. Grate bars*
15. Temperature probes.
16. Flue gas outlet.
17. Fire castable.
18. Insulating castable.
19. Fire bricks.
20. Steel shell.



*Provided only if there is a high ash content in the waste.

BLACKHOLE Packaged Incinerator Model Range

MODEL	FUEL OPTIONS*	CAPACITY**
KKK-SW10	LO/NG/LP	5 Kgs/hr
KKK-SW20	LO/NG/LP	10 Kgs/hr
KKK-SW20xL	LO/NG/LP	15 Kgs/hr
KKK-SW30	LO/HO/NG/LP	20 Kgs/hr
KKK-SW30xL	LO/HO/NG/LP	25 Kgs/hr
KKK-SW40	LO/HO/NG/LP	30 Kgs/hr
KKK-SW40xL	LO/HO/NG/LP	40 Kgs/hr
KKK-SW50	LO/HO/NG/LP	50 Kgs/hr

*Please specify choice of fuel at the time of ordering

LO = Light Oil, HO = Heavy Oil, NG = Natural Gas, LP = LPG

**with respect to hospital waste.

Few of Our Clients

- L&T • Honda Siel Power Products • Nestle • ITC • AstraZeneca
- Gujarat Ambuja • NHPC • CFTRI • Indian Institute of Integrative Medicine • Nuclear Power Corporation of India Ltd. • Ministry of Health, Vietnam • Auto Crop Care Ltd., Bangladesh
- ACI Formulations, Bangladesh • Sfaceia Tripoleos, Greece
- Haychem Ltd., Sri Lanka.

Nika reserves the right to alter specifications without prior notice.

