



## Sustainable solutions for better environment



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**ATM** ARNOLD Technology  
**RECYCLINGSYSTEMS**



**bsi.**



# BlackHole®

## Waste Disposal Machine

This prospectus will introduce the BlackHOLE™, a newly patented Technology. The BlackHOLE™ is a revolutionary waste management piece of art and technology based on trademarked technologies which includes Programmed Oxygenated Plasma State™ (POPS™), Ionized Oxygen Plasma™ (IO2P™) and Tesla Flux Vortex™ (TFV™). The BlackHOLE™ offers an efficient and commercially viable, eco-friendly, permanent solution to waste management. This new, affordable, state-of-the-art technology does not require any input energy source like fuel or electricity, to manage the waste. Any accessories like a conveyor belt and any other automations and customizations can also be run without any additional external energy source. The BlackHOLE™ is available in different variances based on material, features and capacity, which ranges from one ton per day to ten tons per day of solid waste.

- No electricity or fuel is required
- Waste is destructed scientifically by intake of small atmospheric air through plasma
- No additional equipment is required
- Adopts advanced Plasma Magnetic heat decomposition
- Operates at very safe temperatures
- Any layman can operate the machine
- Minimal cost and maintenance
- Can be used for any kind of municipal solid waste
- Due to the controlled oxygen in flow technique, the dioxins and furan levels in the emissions are very low
- Dioxin and furan are well under the norms due to the presence of plasma state
- Remaining by-product is ceramic ash which can be reused in the cement and ceramic tile industries
- Running cost is almost nil
- Can be decentralized accordingly
- Can be easily transported
- Has a minimum of 25 year life span
- Can run continuously for days
- Can be operated with less space
- Patented in 151 countries with 10 trademarks
- Fuel-less waste management, waste disposal and waste recycling
- Reduces waste volume to landfills
- Zero emissions compared to current incineration methods
- Does not require segregation
- Compact
- Easy to operate
- Eradicates all septic/poisonous substances
- Eliminates need for secondary combustion equipment
- Removes toxins in its entirety at low temperatures (350°C - 380°C)
- 100% emissions free
- Environmentally friendly

### All Types of wastes except

1. Concrete
2. Glass
3. Metals



United States Patent  
US 00958733B1



# HURIKAN 5000 with Gas cleaning system

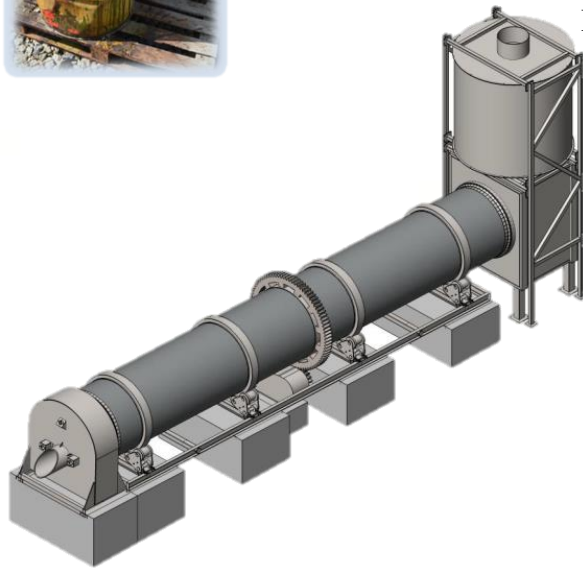


Productive high efficiency incinerator  
 Perfect for continuous work  
 Availability different kind of waste can burn (Oil waste, Medical waste, M.S.W, etc....)

Inside lining layer refractory with high temp. resistance increasing efficiency and long period work

## Gas cleaning system

Brief Description of the Gas Cleaning System after the Incinerator HURIKAN 5000



Parameters	Standard Equipment
Gas Cooling up to ~,	100 C
Dry cyclone with hopper and supporting structures	✓
Scrubber with a movable nozzle	✓
The wet gas cleaning apparatus with a movable nozzle	✓
High pressure fan	✓
Pump station	✓
Circulation capacity	✓
Piping with shutoff valves.	Stainless Steel
Hydraulic resistance Pa	Up to 8000
Input dust, mg / m <sup>3</sup>	7000
The entrance temperature.	1000 C
Productive capacity m <sup>3</sup> / h	5000-7000
Cleaning efficiency, %	99
Method of gas cleaning	Scrubber Cyclone
Dimensions MM	13000 x 6000 x 12000

Scrubber-Cyclone Gas Cleaning System	Contents
	1.Fan
	2.Final Stage of Gas Cleaning
	3.Alkaline Circulation Tank
	4.Capacity For Uterine Fluid
	5.Operation Control
	6.Circulation Pump
	7.Booster Pump
	8.PH Controller
	9.Liquid Level Sensor MAX
	10.Liquid Level Sensor MIN
	11.Fluid Flow Sensor
	12.Differential Pressure Indicator
	13.Recharge
	14.Saturated Liquid Discharge, pulp remover
	15.Hopper Cyclone



# Shredding Machines

Different sizes of shredder machine for all types of materials , suitable to breakdown polluted materials to be washed or burned .



Arno@Shred for shredding various materials. The powerful and efficient rotary shear - a double shaft shredder - is often used in the pre-crushing of metal, tires, e-waste or plastic. The cutting discs shred the input material in the longitudinal direction. With additional fitted transverse blades, the material is crushed to defined piece sizes. With special granulator blades and screen baskets, the double shaft shredder can also be used for fine crushing. For high throughput rates with chips shredding the ArnoShred DS is also executed with double rotor and both-sided stator blades.



## Suitable for

- Steel
- Stainless steel
- Aluminum
- Copper
- etc.
- Electronic devices
- Plastics / Foil
- Bulky waste
- Tyre wire, Wire



# ECORED Manual Hydrocarbon cleaning

**Safe procedure to clean oilfield machinery while running . A friendly use materials with no residuals output .**

## Features and Properties:

- Effectiveness of the product increases using pressure and hot water.
- Does not affect the natural bacteria in the natural decomposition.
- Safe and does not need to use the protective kits when used.
- Can be used with different concentrations.
- Does not burn and does not help the ignition.
- Does not contain any petroleum compounds.
- Contains no harmful volatile gases.
- Masks and removes unpleasant odor's.
- Does not scratch the surface.
- It is free from chlorinated solvents.
- 100% biodegradable.
- Non-toxic or non-dangerous.
- Leaves no residue.
- Easy storage.



**ECORED**





## Water Mixture for Oil Fire fighting

A 1:20 Dilution formula produce a powerful liquid for fire fighting system . A quick dispersant materials help to cool the burning materials and make it impossible to fire again .

Use the same Fire system tanks , pumps ...  
Can mix with any type of water  
Suitable for all types of fires except electric  
Help to eliminate volatile gases .  
Any person can use it .

**ECO****RED**



**AGUA**



## AGUA Stain Remover

### AGUA SR 200

Quick rust remover for all types of equipment . Easy and quick results where any technician can use after short training .

A chemical substance where it react with iron oxides and make it easy to wiped out .



The logo for AGUA, featuring a stylized blue circular icon to the left of the word "AGUA" in a bold, blue, sans-serif font.

## AGUA Magnetite Converter AGUA MG 100

A quick rust treatment chemical ,  
convert Iron rust to magnetite  
paint primer which can be paint  
over by any type of paints .

Simple and easy , suitable for fast  
repairing by any technician .



The output paint primer is totally healthy product

