



PRODUCT CATALOGUE

MEDICAL & HAZARDOUS WASTE INCINERATOR



Centra Rekayasa Enviro

PT. Centra Rekayasa Enviro

Engineering Solutions for Our Environment, Industry and Community

www.cr-enviro.com

THE MOST ADVANCED INCINERATOR TECHNOLOGY IN INDONESIA

Setting the Standard in Incinerator & Thermal Equipment



CRE is a leading manufacturer and installer of incinerator equipment in Indonesia.

Our high quality incineration equipment products offer solutions for managing domestic, hazardous and medical waste and our reputation of innovation and manufacturing excellence is recognized through numerous awards.



In response to the challenge of achieving consistently high performance against an ever tighter regulation in the incineration industry, more professionals and customers trust CRE to deliver on our promise to set the standard in incineration and thermal equipment in Indonesia.

SCOPE OF SERVICES



PT Centra Rekayasa Enviro is an ISO 9001:2015 Certified Company and a fully owned private EPCI enterprise based in Bandung and have the core business in providing high quality incineration equipment.

Here is our scope of service for incinerator equipment:

- Medical Waste Incinerator
- Hazardous Waste (B3) Incinerator
- Domestic Waste Incinerator
- Carcass Waste Incinerator
- Waste to Energy
- Operation and Maintenance Service
- Consulting

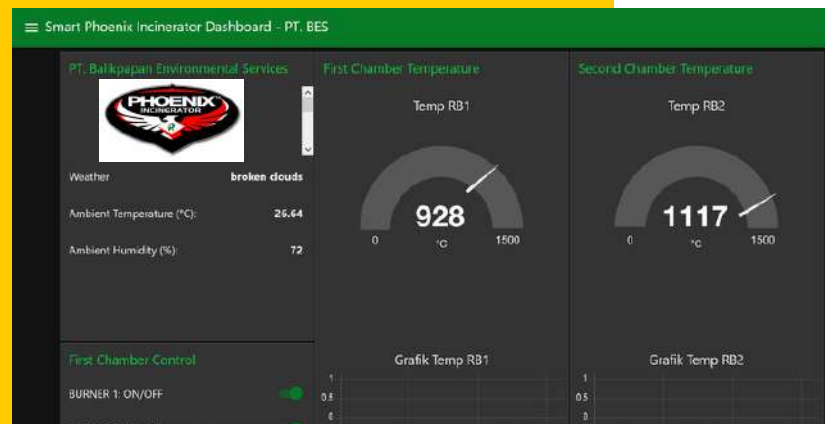
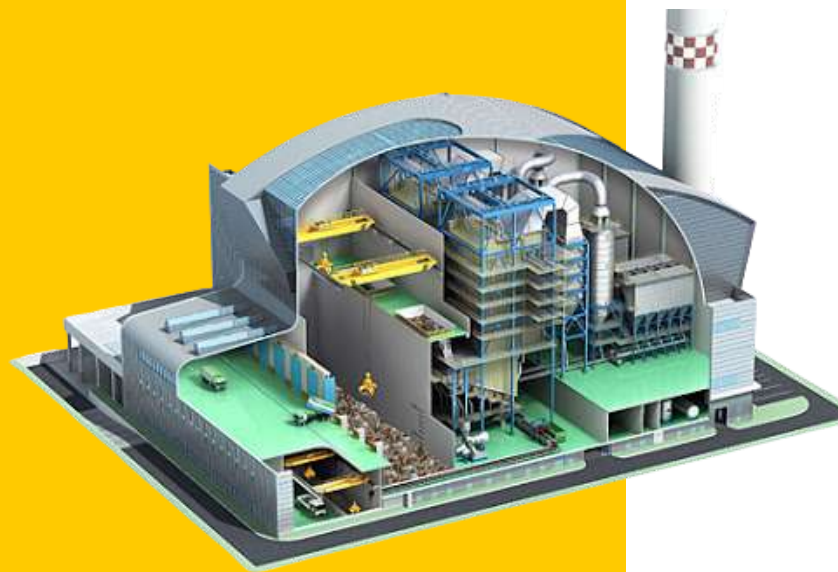
HIGH PERFORMANCE AND SMART!

Phoenix Incinerator™

Our Phoenix Incinerator is a high performance, robust and equipped with the latest SMART technology, which we embed an Internet of Things (IoT) system in each of our product.

The advancement of IoT within thermal incinerator equipment is lead by CRE, and we are the first company that is using IoT in all of our equipment to help the client in managing, controlling and using the equipment.

By applying IoT, customer can control and monitor their equipment simply using their mobile phone. The incinerator apps is designed to help the clients in viewing and generating reports as per requirement made by the customers.



01

IOT READY

03

ROBUST

02

APPS READY

04

HIGH PERFORMANCE

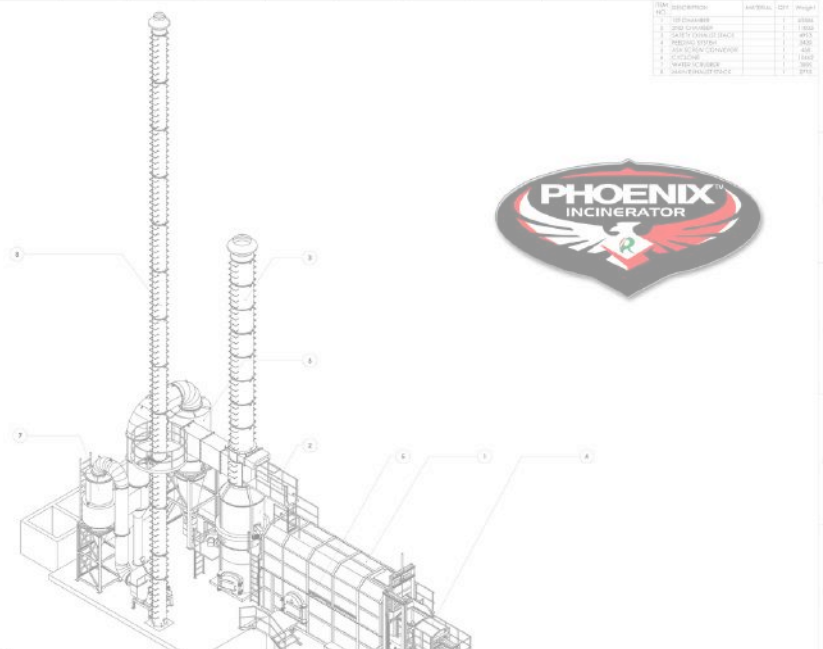
ADVANCED AIR POLLUTION CONTROL

NEUTRALIZED THE AIR EMISSION UP TO MICROSCOPIC LEVEL AND COMPLIANCE WITH REGULATION.

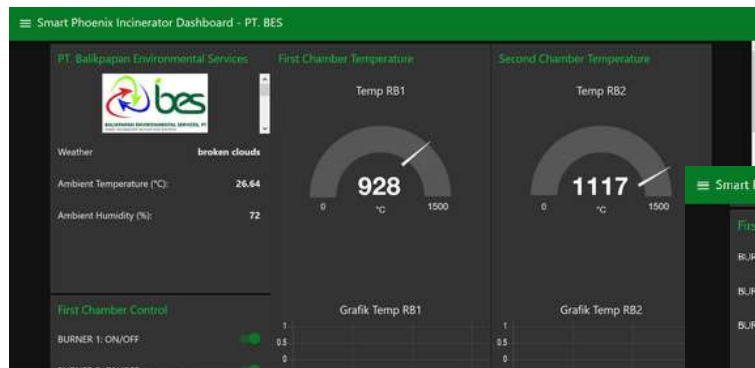


All of our incinerator is equipped with advanced Air Pollution Control (APC) System to neutralize all of the air emission produced by the incinerator which includes the following:

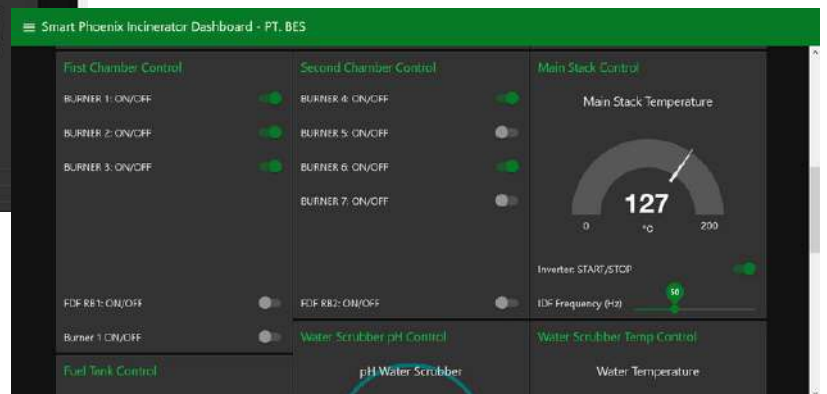
- Cyclone
- Heat Exchanger
- Water Scrubber
- Venturi Scrubber



TYPICAL MEDICAL AND B3 WASTE INCINERATION LAYOUT



Dashboard Control System



IoT - Android Apps Ready

KLHK Approval. Green Technology Registration.



KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN
SEKRETARIAT JENDERAL

Gedung Mangala Wanabakti, Jalan Gatot Subroto,
Jakarta 10270, Kotak Pos 6505
Telepon : 5730191, Faximile : 5738732

20 Maret, 2017

Nomor : S.347 /SEJFH /SLK /SET-1/3/2017
Lampiran : 1 (satu) berkas
Hal : Registrasi Teknologi Ramah Lingkungan
"Incinerator type Reciprocating Gate"

Yth.
Direktur PT Centra Rekayasa Enviro
Ruko Taman Mekar Agung No:42
Komplek Istana Taman Mekar Wangi
Jl. Moh. Toha, Bandung
Jawa Barat

Berkenaan dengan surat Saudara No : 001/CRE/XII/2016 tertanggal 13 Desember 2016, perihal Surat Permohonan, bersama ini disampaikan bahwa:

1. Merujuk:
 - a. Undang-undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup, Pasal 63 ayat 1 butir v bahwa Pemerintah mengoordinasikan, mengembangkan, dan menyosialisasikan pemanfaatan teknologi ramah lingkungan hidup;
 - b. Peraturan Menteri Negara Lingkungan Hidup No:22 Tahun 2009 tentang Tata Laksana Registrasi Kompetensi Bidang Lingkungan.
 - c. Peraturan Menteri Lingkungan Hidup No: 2 Tahun 2014 tentang Pencantuman Logo Ekolabel.
 - d. Keputusan Sekretaris Jenderal Kementerian Lingkungan Hidup dan Kehutanan Nomor: SK.101/Setjen.DAR/2015 tanggal 26 Oktober 2015 tentang Komite Teknis Verifikasi Teknologi Ramah Lingkungan.
2. Telah dilakukan Review dan Verifikasi terhadap teknologi "Incinerator type Reciprocating Gate" disaksikan oleh Komite Teknis Verifikasi Teknologi Ramah Lingkungan, dengan informasi profil teknologi sebagaimana terlampir.
3. Berdasarkan butir 1 dan 2 diatas, permohonan registrasi Teknologi Ramah Lingkungan telah disetujui dengan nomor registrasi : 020/TRL/Reg-1/KLHK dan masa berlaku nomor registrasi berlaku dalam jangka waktu 3 (tiga) tahun.

Demikian disampaikan, atas perhatian Saudara diucapkan terimakasih.



Sekretaris Jenderal
Bambang
NIP. 19640930 1



- Tembusan Yth:
1. Menteri Lingkungan Hidup dan Kehutanan (sebagai laporan);
 2. Direktur Jenderal Pengelolaan Sampah, Limbah dan Bahan Berbahaya dan Beracun

CRE-100



Centra Rekrayasa Enviro

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Centra Rekrayasa Enviro

PHOENIX INCINERATOR™
CRE-100 SOLID AND LIQUID INCINERATOR

Applications:

Domestic, Medical and Hazardous Waste
Solid and Liquid Waste

Temperature range:

Primary Chamber 800 - 1000 C
Secondary Chamber 1000 - 1200 C

Capacity:

100 kg/hours

Air Pollution Control:

Water Scrubber and Cyclone System

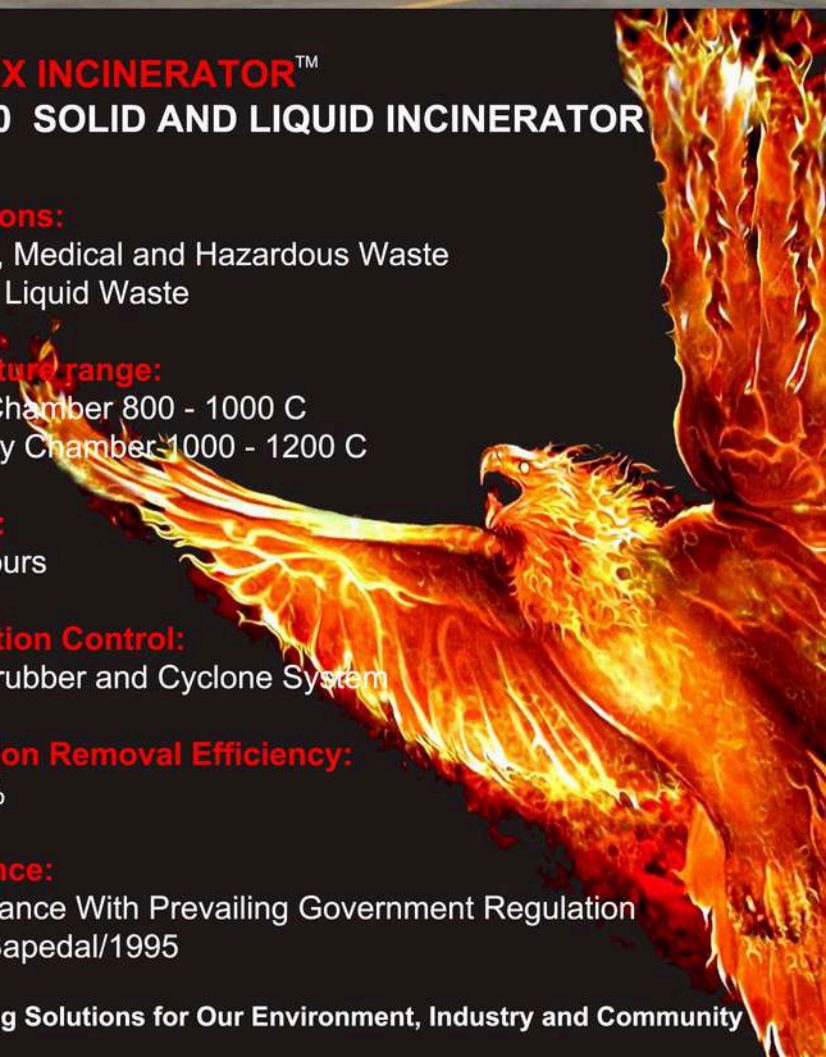
Destruction Removal Efficiency:

99.9999%

Compliance:

In Accordance With Prevailing Government Regulation
Kep. 03/Bapedal/1995

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INCINERATOR GENERAL SPECIFICATION

PT. CENTRA REKAYASA ENVIRO



GENERAL SPECIFICATION	Reciprocating Kap. 100 Kg/Jam
Merk	Phoenix Incinerator
Type	CRE-100
Kapasitas	100 Kg/Jam
Jenis Limbah	Limbah Domestik/Limbah Padat Medis/Limbah B3
Ruang Bakar Utama	2.6 M3
Ruang Bakar Kedua	1.9 M3
Meşin Burner (Pembakar)	2 Unit
Meşin Blower (Injector Udara)	2 Unit
Jenis Bahan Bakar	Solar/Gas
Konsumsi Bahan Bakar	30 Liter/jam
Kebutuhan Tegangan Listrik	220 v/ 380 v/ 50 Hz
Kebutuhan Daya Listrik	10 KW
Temperatur Ruang Bakar	Primary chamber 800 C - 1000 C, Secondary Chamber 1000 C - 1200 C
Waktu Tinggal Gas	>2 detik
Efisiensi Pembakaran	99,99%
Efisiensi Penghancuran dan Penghilangan (DRE)	99,9999%
Uji Dioxin Furan (Std min: <0.1 ng/nm3)	Pass
Indikator Temperatur	Digital thermocontrol
Kontrol Panel	PLC
Kapasitas Bahan Bakar	500 Liter
Sistem Pengumpan Limbah	Ram Feeder
Badan Meşin Utama	Mild Steel
Refractory material	SK 34 & SK 36 Bata Api dan C - 15 Castable cement
Bahan Penahan Panas (Isolator)	Insulation brick/ Ceramic Fiber/Rockwool/Glasswool
Spesifikasi Cerobong	1200 mm x 300 mm, Stainless Steel
Tinggi Cerobong (dari permukaan tanah)	14 meter
Lubang Pengambilan Uji Emisi	8 DE/2 DE
Fasilitas Pendukung Pengambilan Uji Emisi	Tangga dan Platform yang dilengkapi pengaman
Ukuran Dimensi Keseluruhan	9 m x 6 m x 2.5 m
Berat Meşin Keseluruhan	5 ton
Jenis Air Pollution Control (APC)	Water Scrubber dan Cyclone System



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 Centra Rekayasa Enviro



PHOENIX INCINERATOR™
CRE-300 SOLID AND LIQUID INCINERATOR

Applications:

Domestic, Medical and Hazardous Waste
Solid and Liquid Waste

Temperature range:

Primary Chamber 800 - 1000 C
Secondary Chamber 1000 - 1200 C

Capacity:

300 kg/hours

Air Pollution Control:

Water Scrubber and Cyclone System

Destruction Removal Efficiency:

99.9999%

Compliance:

In Accordance With Prevailing Government Regulation
Kep.03/Bapedal/1995

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INCINERATOR GENERAL SPECIFICATION

PT. CENTRA REKAYASA ENVIRO



GENERAL SPECIFICATION	Reciprocating Kap. 300 Kg/jam
Merk	Phoenix Incinerator
Type	CRE-300
Kapasitas	300 kg/jam
Jenis Limbah	Limbah Domestik/Limbah Padat Medis/Limbah B3
Ruang Bakar Utama	6.7 M3
Ruang Bakar Kedua	7.1 M3
Meşin Burner (Pembakar)	5 Unit
Meşin Blower (Injector Udara)	2 Unit
Jenis Bahan Bakar	Solar/Gas
Konsumsi Bahan Bakar	75 Liter/jam
Kebutuhan Tegangan Listrik	220 v/ 380 v/ 50 Hz
Kebutuhan Daya Listrik	15 KW
Temperatur Ruang Bakar	Primary chamber 800 C - 1000 C, Secondary Chamber 1000 C - 1200 C
Waktu Tinggal Gas	>2 detik
Efisiensi Pembakaran	99,99%
Efisiensi Penghancuran dan Penghilangan (DRE)	99,9999%
Uji Dioxin Furan (Std min: <0.1 ng/nm ³)	Pass
Indikator Temperatur	Digital thermocontrol
Kontrol Panel	PLC
Kapasitas Bahan Bakar	1000 Liter
Sistem Pengumpan Limbah	Bucket Lift & Ram Feeder
Badan Meşin Utama	Mild Steel
Refractory material	SK 34 & SK 36 Bata Api dan C - 15 Castable cement
Bahan Penahan Panas (Isolator)	Insulation brick/ Ceramic Fiber/Rockwool/Glasswool
Spesifikasi Cerobong	1200 mm x 300 mm, Stainless Steel
Tinggi Cerobong (dari permukaan tanah)	30 meter
Lubang Pengambilan Uji Emisi	8 DE/2 DE
Fasilitas Pendukung Pengambilan Uji Emisi	Tangga dan Platform yang dilengkapi pengaman
Ukuran Dimensi Keseluruhan	8.7 m x 10 m x7.8 m
Berat Meşin Keseluruhan	12 ton
Jenis Air Pollution Control (APC)	Water Scrubber dan Cyclone System

CRE-500



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 @CREnviro

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PHOENIX INCINERATOR™ CRE-500 SOLID AND LIQUID INCINERATOR

Applications:

Domestic, Medical and Hazardous Waste
Solid and Liquid Waste

Temperature range:

Primary Chamber 800 - 1000 C
Secondary Chamber 1000 - 1200 C

Capacity:

500 kg/hours

Air Pollution Control:

Water Scrubber and Cyclone System

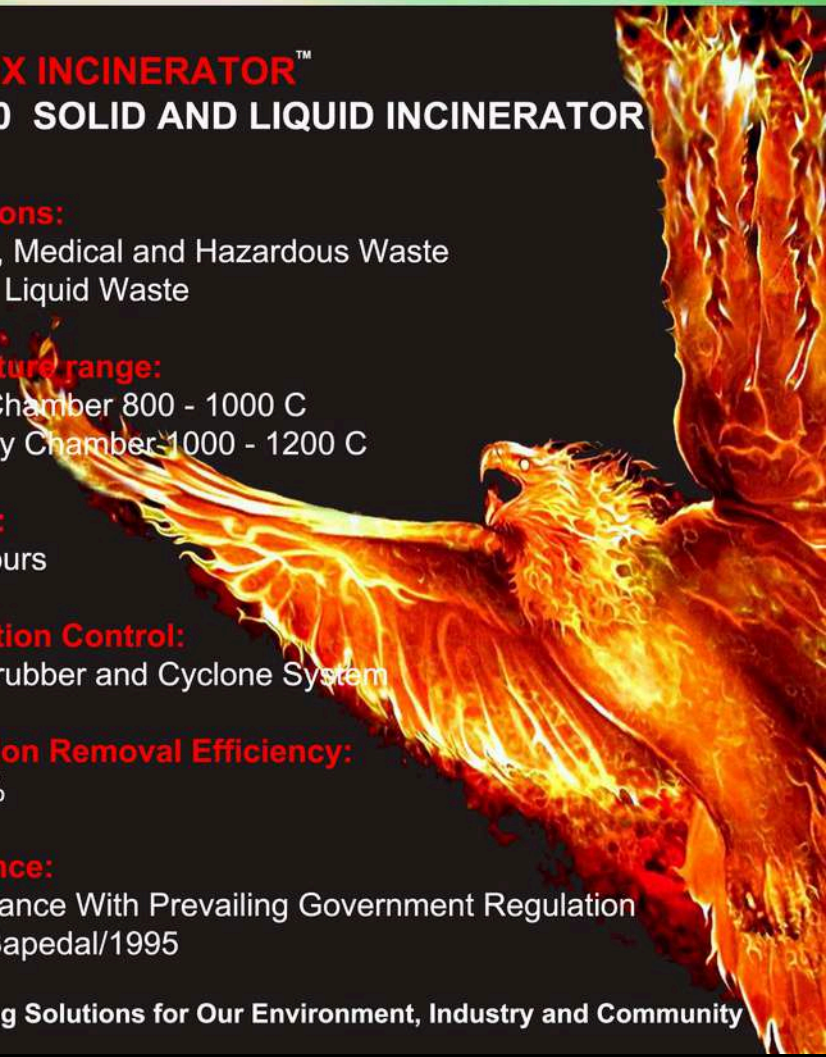
Destruction Removal Efficiency:

99.9999%

Compliance:

In Accordance With Prevailing Government Regulation
Kep. 03/Bapedal/1995

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INCINERATOR GENERAL SPECIFICATION

PT. CENTRA REKAYASA ENVIRO



GENERAL SPECIFICATION	Reciprocating Kap. 500 Kg/jam
Merk	Phoenix Incinerator
Type	CRE-500
Kapasitas	500 Kg/Jam
Jenis Limbah	Limbah Domestik/Limbah Padat Medis/Limbah B3
Ruang Bakar Utama	8 M3
Ruang Bakar Kedua	8.5 M3
Meşin Burner (Pembakar)	7 Unit
Meşin Blower (Injector Udara)	2 Unit
Jenis Bahan Bakar	Solar/Gas
Konsumsi Bahan Bakar	95 Liter/jam
Kebutuhan Tegangan Listrik	220 v/ 380 v/ 50 Hz
Kebutuhan Daya Listrik	20 KW
Temperatur Ruang Bakar	Primary chamber 800 C - 1000 C, Secondary Chamber 1000 C - 1200 C
Waktu Tinggal Gas	>2 detik
Efisiensi Pembakaran	99,99%
Efisiensi Penghancuran dan Penghilangan (DRE)	99,9999%
Uji Dioxin Furan (Std min: <0.1 ng/nm3)	Pass
Indikator Temperatur	Digital thermocontrol
Kontrol Panel	PLC
Kapasitas Bahan Bakar	1000 Liter
Sistem Pengumpan Limbah	Bucket Lift & Ram Feeder
Badan Meşin Utama	Mild Steel
Refractory material	SK 34 & SK 36 Bata Api dan C - 15 Castable cement
Bahan Penahan Panas (Isolator)	Insulation brick/ Ceramic Fiber/Rockwool/Glasswool
Spesifikasi Cerobong	1200 mm x 300 mm, Stainless Steel
Tinggi Cerobong (dari permukaan tanah)	30 meter
Lubang Pengambilan Uji Emisi	8 DE/2 DE
Fasilitas Pendukung Pengambilan Uji Emisi	Tangga dan Platform yang dilengkapi pengaman
Ukuran Dimensi Keseluruhan	20 m x 7 m x 9 m
Berat Meşin Keseluruhan	16 ton
Jenis Air Pollution Control (APC)	Water Scrubber dan Cyclone System

PARTIAL EXPERIENCE LIST

- Kementerian Lingkungan Hidup dan Kehutanan
- RSUD Patrol, Jawa Barat
- RSUD Rembang, Jateng
- RS ST Carolus Borromeus, Kupang
- PT. Andhika Makmur Persada, Bogor
- PT. Bintangmas Cahaya Internasional, Serang
- PT. Harapan Baru Sejahtera Plastik, Karawang
- PT. Arah Environmental Indonesia, Solo
- PT. Triguna Pratama Abadi, Karawang
- PT. Putera Restu Ibu Abadi (PRIA), Mojokerto
- PT. Multi Hanna Kreasindo, Bekasi
- PT. Horas Miduk, Sukabumi
- PT. Selamat Sempurna Tbk (ADR Group), Banten
- PT. Sumatera Deli Lestari Indah, Medan
- PT. Purwakarta Jaya, Purwakarta
- PT. BS Jaya, Cirebon
- PT. Global Enviro Nusa J/O PT. Centra Rekayasa Enviro, Semarang
- PT. Balikpapan Environment Services J/O PT. Centra Rekayasa Enviro, Balikpapan
- PT. Istaka Karya Tbk, Cirebon
- PT. Adhi Karya Tbk, Medan
- PT. Kapur Beunghar Abadi, Sukabumi
- PT. Wahana Pamunah Limbah Industri, Banten
- PT. Jatim Maju Jaya, Mojokerto

More details? Please visit: www.cr-enviro.com

DOMESTIC, MEDICAL AND HAZARDOUS WASTE INCINERATOR CAP. 100 KG/HOURS | CRE-100



DOMESTIC, MEDICAL AND HAZARDOUS WASTE INCINERATOR CAP. 300 KG/HOURS | CRE-300



DOMESTIC, MEDICAL AND HAZARDOUS WASTE INCINERATOR CAP. 500 KG/HOURS | CRE-500



CONTACT US



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