

TRUMP International

in the field of Medical Industry

Medical Garbage Treatment System

Medical Waste Incinerator

TRUMP 001

This incinerator is one kind of medical incinerator with the advanced technology in world, which integrate the Japan technology and the advantages of different types of incinerator in China together.



Advantages:

- Adopted with the Gasification burning technology, suitable for burning different kind of medical wastes.
 - Adopted with gasification burning, mixing burning, burn-out treatment technology, the smoke-emission, smoke dust contents, and dioxin content are lower than Chinese emission standard.
 - Working in fully closed negative pressure situation, it is also suitable for infectious medical waste, not worry about the cross infection or second pollution.
- Special design with large furnace door, big and small inlets, multi wind-giving inlets in circular way, oxygen supply can be enough and moderate, which can make burning sufficiently. The daily medical garbage can be burned out every day.
 - Small volume, occupy small space for the installation.



Detailed introduction:

- This medical incinerator adopt the most advanced burning way of first burning+ second burning+ burning out. The incinerator structure is the nearly the same as the one from Japan famous incinerator. The gasification burning way in the first burning Chamber can make the temperature inside from 200 °C up to 400 °C, there is no clinkers, agglomeration and other blocks occurred during the burning. Compared with the direct burning way, there is only a little of dusts occurred by gasification burning.
- There is burner and circular wind-giving device in second mixing burning chamber. In the temperature, the fuel gas in smoke can burn sufficiently, so the smoke occurred during the first burning can be burned sufficiently, and the carbon substances in the flame can't get out and no delay burning.
- In burn-out treatment chamber, there is special burning support technology



adopted, which can make the smoke burn sufficiently another time, while the rotating air flowing can remove the dust. The burning smoke can be stayed inside more than 2 second, which can make the fuel gas and the burnable substances in ashes burned completely.

- There is special smoke purification devices, which can make the gas purified before given out. The harmful substances in the exhausted gas is lower than China regulation of GD 18484-2001.
- This incinerator is automatic operated, which can lower the labor intensity. The furnace door, ash door is special closed structure. The burning is in negative pressure situation, when burning, the inside and outside is isolated completely, so there is no possibility of cross infection or second pollution. There is absolute advantage for infective medical garbage treatment.

Technical Specification

Applicable hospital size (number of beds)	30-50 beds
Incineration capacity	10-20kg/time (daily incineration 3-6 times)
Size of incinerator	1.6m x 1.3m x 1.75m
Volume of incinerator	Gasification room 0.2m ³ , secondary burningroom 0.14m ³ , drift along burning a room 0.02m ³
Size of furnace gate	380mm x 480mm
Chimney	Height 5m, outer diameter Φ280mm
Blower	0.37kw
Combustion-supporting burner	Power 0.11kw, fuel consumption 4-6kg/h
Re-combustion burner	Power 0.11kw, fuel consumption 4-6kg/h
Running-voltage	220v or 380v
Weight(kg)	About 1200

Applicable hospital size (number of beds)	50-100 beds
Incineration capacity	20-30kg/time (daily incineration 3-6 times)
Size of incinerator	1.45m x 0.9m x 1.75m
Volume of incinerator	Gasification room 0.3m ³ , secondary burningroom 0.2m ³ , drift along burning a room 0.03m ³
Size of furnace gate	480mm x 600mm
Chimney	Height 5m, outer diameter Φ280mm
Blower	0.5kw
Combustion-supporting burner	Power 0.11kw, fuel consumption 4-6kg/h
Re-combustion burner	Power 0.11kw, fuel consumption 6-10kg/h
Running-voltage	220v or 380v
Weight(kg)	About 2300

Applicable hospital size (number of beds)	100-200 beds
Incineration capacity	30-50kg/time (daily incineration 3-6 times)
Size of incinerator	1.8m x 1.15m x3m
Volume of incinerator	Gasification room 0.5m ³ , secondary burning room 0.3m ³ , drift along burning a room 0.04m ³
Size of furnace gate	620mm x 800mm
Chimney	Height 10m, outer diameter Φ280mm
Blower	0.37kw
Combustion-supporting burner	Power 0.11kw, fuel consumption 4-10kg/h
Re-combustion burner	Power 0.11kw, fuel consumption 4-10kg/h
Running-voltage	220v or 380v
Weight(kg)	About 4000

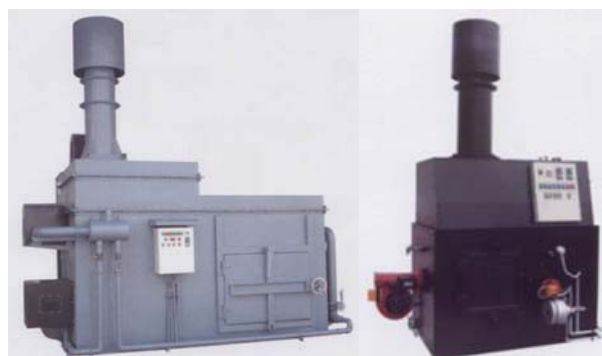
Applicable hospital size (number of beds)	200-300 beds
Incineration capacity	100-150kg/time (daily incineration 3-6 times)
Size of incinerator	2m x 1.4m x3.5m
Volume of incinerator	Gasification room 1.4m ³ , secondary burning room 0.7m ³ , drift along burning a room 0.1m ³
Size of furnace gate	760mm x 960mm
Chimney	Height 10m, outer diameter Φ300mm
Blower	0.5kw
Combustion-supporting burner	Power 0.11kw, fuel consumption 4-10kg/h
Re-combustion burner	Power 0.22kw, fuel consumption 7-14kg/h
Running-voltage	220v or 380v
Weight(kg)	About 7000

Applicable hospital size (number of beds)	300-500 beds
Incineration capacity	200-300kg/time (daily incineration 3-6 times)
Size of incinerator	2.2m x 1.4m x3.8m
Volume of incinerator	Gasification room 1.7m ³ , secondary burning room 0.75m ³ , drift along burning a room 0.16m ³
Size of furnace gate	900mm x 1100mm
Chimney	Height 10m, outer diameter Φ400mm
Blower	1.1kw
Combustion-supporting burner	Power 0.22kw, fuel consumption 7-14kg/h
Re-combustion burner	Power 0.37kw, fuel consumption 10-20kg/h
Running-voltage	220v or 380v
Weight(kg)	About 8000

Applicable hospital size (number of beds)	600-800 beds
Incineration capacity	300-400kg/time (daily incineration 3-6 times)
Size of incinerator	3m x 2m x 4.8m
Volume of incinerator	Gasification room 3.5m ³ , secondary burning room 1.5m ³ , drift along burning a room 0.3m ³
Size of furnace gate	1080mm x 1280mm
Chimney	Height 14m, outer diameter Φ460mm
Blower	No.1 1.1kw No.2 0.55kw
Combustion-supporting burner	Power 0.22kw, fuel consumption 7-14kg/h
Re-combustion burner	Power 0.37kw, fuel consumption 15-26kg/h
Running-voltage	220v or 380v
Weight(kg)	About 13000

TRUMP 002

This type of incinerator is good performance of medical incinerator. It is produced with good technology which integrate the third generation of Pyrolysis & gasification burning technology in the world, and the advanced burning technology in Japan together, and based on above, with the further research and development in China. It is more suitable for medium and small size of hospitals.



How it work:

The medical garbage are put into the first burning Chamber, there is different stage of drying, Pyrolysis and gasification, burning, burning out and cooling. In this Chamber, the garbage will be disintegrated into carbonized solid residues and small molecule substances. The carbonized solid residues will be burned in this Chamber. The small molecule granule and burnable gas go into mix chamber, after mixing high temperature fuel gas, it will go into second burning chamber. The burning temperature can reach 1200°C±50°C and the small molecule granule and burnable gas can be burned sufficiently, and can be burned out. The exhausted gas will be purified and cooled firstly, then go into Chimney and injecting outside. The clinker after burned will be removed out by worker.

Feature:

1. Designed with special structure, this medical incinerator is small volume and small area needed for installation.
2. In the first burning chamber, there is special reflowing ignition technology, burning stable, no need of

burner and blower, which can save operation cost.

3. In the second burning chamber, there is special burning way and automatic temperature monitoring and control, it can be burned sufficiently. No black smoke, odorless, no second pollution, the Dioxin in exhausted gas is nearly zero.
4. Special Injection and cooling technology, no fan needed for exhausted gas outside of Chimney. The temperature inside the Chimney is lower, so the life is long.
5. the first burning chamber and second burning chamber are in closed negative situation during burning, no backfire, no harmful gas outside.
6. Imported burner, heat efficiency is high, the operation cost is lower.
7. Automatic operation, easy to use. Safety function of self alarm and power off protection.
8. High quality of refractory ceramics, the heat isolation is high, and the heat efficiency is high, the Fuel cost can be saved.
9. No need of pre-processing to the medical rubbish by workers before put into incinerator, minimize the risks for the worker touch the harmful medical rubbish, it is good for worker's health.



(Before burning)

(After burning)

Technical Specification:

Model Parameter	A-10	B -20	C -30	D -50	E -80	F -100
Fuel	Light diesel	Light diesel	Light diesel	Light diesel	Light diesel	Light diesel
Burning capacity (kg/h)	5-10	10-20	20-30	30-50	50-80	80-110
Fuel consumption kg/h)	2	3	5	7	10	12
Weight (kg)	600	1800	2100	2500	3000	3500
Dimension LXWXH (mm)	1420×710×1500	1760×860×1700	2200×1060×2100	2500×1160×2300	3300×1650×2500	3500×1750×3000
Voltage (v)	380/220	380/220	380/220	380/220	380/220	380/220
Power (w)	600	900	1200	1800	2500	3200

TRUMP 003



Medical incinerator is new type of garbage treatment equipment, which based on analyzing similar products in domestic and abroad. It is suitable for different levels of hospitals, which is used to burn operation castoff, virus infected materials and other kind of medical solid castoff. It is also suitable for aquatic plants, epidemic-control department, industry, airport, railroad, hotel, park, etc.

Advantages:

1. Burning thoroughly

Special design to burning chamber, the special structure inside of burning chamber, which can make smoke moving effectively, and the blowing of the fire behavior is stable, with the strong burning, the disposable garbage can be carbonized thoroughly.

2. Friendly to environment

There are two times of burning in this Incinerator. The harmful gas occurred after the first burning can be burned and broken down thoroughly in the second burning chamber. If needed, exhaust purification device can be installed.

3. Low cost for burning

There is drying zone in burning chamber, the garbage can be dried firstly inside, and go into the burning zone to be burned, which can make the energy consumption needed for the burning lower largely.

4. Advanced function, which can make it operated easily

a) There is very good performance of burning devices, also advanced function of electronic ignition and photoelectric detection, which can make the worker operate the incinerator easily. b) No need for the special technical training to workers. c) No need for the special person to work for it, the worker can do different jobs together.



Technical Parameter:

Model	Processing capacity	Voltage	Power	Overall dimension	Weight
A-10	10-20	220V	500W	1750 x 1000 x 1700	800
B-20	20-30	220V	750W	2200x1600 x 2200	1700
C-50	50-60	220V	1000W	2200x1800 x 2250	2400
D-100	80-120	220V	1500W	2800x2100 x 2250	4300
E-150	140-160	220V	1500W	3000x2100 x 2250	4800

TRUMP 004

Introduction

This type of environmental protection incinerator is a new generation incinerator. In design and research it meet the demand of the domestic and foreign customer. It designs with two-stage combustion, multistage device, oil or gas can be used, dry-wet dust collect device. Auto-ignition, preventing fire back system

Application Scope

Working offal, street leaves, town hospitals, living garbage, medical offal, animal lab offal, etc.

Characteristics

- No smoke, odor, burning fast, treating efficiency
- Easy to operate, convenience, easy to learn, study and master
- Exquisite appearance, anti-corrosion, less trouble, keep in good repair
- Dust collect effect and exhaust gas emission meet the national standard
- Lower running cost
- Small occupying area, less investment recycle quickly



Technical parameter

Treatment capacity	10-80kg/h
First combustion room temperature	600°C-900°C
Secondary combustion room temperature	800°C-1200°C

Oil consumption	6-10kg/h
Burning volume	0.8m ³
Equipment weight	3200kg
Power supply	Three-phase four-wire 380V 50HZ
Total installed power	5kw
Outline appearance(mm)	2500x3000x7500

TRUMP 005

Application Scope

Working offal, street leaves, town hospitals, medical offal, animal lab offal, etc.

Characteristics

- Easy for operation
- Excellent in burning effect
- Small area occupied, low cost
- Low accident, easy for maintenance
- Low Running Cost

Technical parameter

Furnace type	TRUMP-005
Burning capacity	10-50kg/h
First-stage combustion room temperature	600°C-900°C
Second-stage combustion room temperature	800°C-1200°C
First-stage combustor power	0.75kw
Fuel consumption	3-8kg/h
Fan power	1kw
Burning bed area	0.29m ²
Furnace inner volume	0.29m ³
Floor space(mm)	1200x1700
Total weight	1590kg
Outline appearance(mm)	1200x1500x5500
Chimney demesion(mm)	Dia.219

