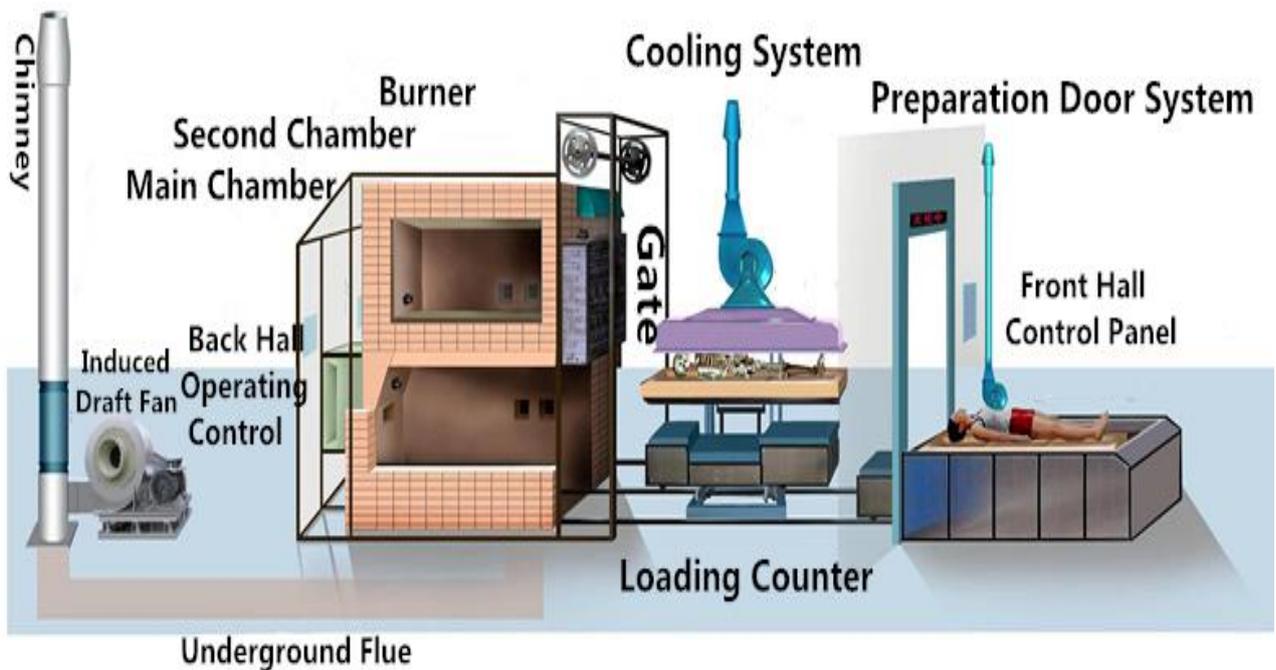


Cross-Section Diagram of Cremator



Cremation machine

1、HEF-10

Number	NAME	Detail
1	External dimension of furnace body (mm) :	L×W×H=8400×2350×2500
2	Trolley size (mm):	L×W×H=2120×680×700
3	Furnace size (mm) :	2150×700×700
4	Number of bed surface of trolley (set) :	1or2
5	Use fuel	0 ~ - 10 × light diesel, city gas, natural gas, liquefied gas
6	Fuel consumption (per)	6~10
7	Average cooling time (min/per)	4-15
8	Operating temperature of main combustion chamber	700~900℃
9	Working pressure of main furnace (Pa)	-2Pa~-50Pa
10	Total weight of furnace body (t)	25
11	Ejector fan (kw)	7.5
12	Blower (kw)	7.5
13	Harmful gas emission	Comply with relevant national environmental protection regulations
14	Floor area of equipment (m ²)	14.16
15	Quality of ashes	Full burning of ashes, pure white without sundries
16	Odor determination	There is no peculiar smell or smoke in the cremation room
17	Equipment performance	Environmental protection and energy saving, low noise and small vibration

2、 HEF-10#Furnace material of high grade ash picker

Number	Name	Detail
1	Refractory material	<p>The refractory material of the furnace is Yashan brand, which is famous in China. The top cover of the furnace is made of prefabricated high aluminum refractory bricks. The furnace is made of new high-strength erosion resistant aluminum carbonized silicon composite material, which can ensure the fast temperature rise in the furnace, the short time of the cremation remains and the small oil consumption. All refractory bricks and cement used for the furnace body are of high quality, cold and hot resistance, high compressive strength, fast heat absorption, good heat preservation, corrosion resistance, high stability, wear resistance, long service life, and will not automatically loosen and fall off after a long period of high temperature, with a temperature resistance of 1400 degrees.</p>
2	Thermal insulation material	<p>It adopts high-quality aluminum silicate fiber felt board, calcium silicate board and diatomite insulation brick, with high-quality heat conduction, making the surface temperature of furnace body about 20 °C, good insulation performance, long service life, furnace temperature drop of about 40 °C in 24 hours after shutdown.</p>

3	Decorative materials	It adopts 0.8-1.0mm high-quality stainless steel plate, beautiful and generous, strong three-dimensional sense, corrosion resistance, convenient disassembly, maintenance and never deformation
4	Bone scaffold	High quality profiles and plates are adopted, which are durable and never deformed
5	Main combustion chamber	After the body enters the main combustion chamber, it is ignited by the burner and incinerated here
6	Flue gas combustion chamber	Burning the flue gas, making the flue gas stay longer in the furnace, making the toxic and harmful substances burn more fully, so as to achieve the effect of environmental protection
7	Main furnace masonry	During masonry, the mortar is full of the joint surface between the brick and the brick, and the mortar joint is less than 3mm

3、HEF-10#System parameters of high grade ash sorting and cremation machine

Number	Name	Detail	Remark
1	Preliminary door system	The control system of the reserve door adopts the computer automatic control with LED display to ensure the operation of the two sets of operating systems of the front hall and the rear hall. Equipped with high-grade color LCD touch screen for easy operation, using micro motor to drive the reducer hydraulic control to open	

		and close the preparatory door automatically, using high-quality super grade stainless steel plate for external decoration, beautiful and generous, sound insulation and noise reduction	
2	Cooling chamber	After the incineration of the remains is completed, the ashes are cooled in the cooling room, which is composed of the outer framework and the decorative plate, and is cooled by the frequency conversion fan. When the temperature is lower than the ash picking temperature, the automatic alarm will be given to remind and the waiting time for bereavement will be shortened.	Cooling system
3	Collector	The hot air heat exchange device made of the new high-strength, corrosion-resistant, high-temperature and high manganese 310S stainless steel material is placed in the furnace body to provide oxygen temperature. It has the advantages of high heat transfer efficiency, good heat absorption, fast temperature rise, and can quickly raise the air temperature to more than 400 °C, so as to achieve combustion support, strengthen combustion, save energy and reduce consumption, accelerate incineration speed and shorten incineration time.	

4	Combustion system	High quality energy-saving burner of huierfeng brand is adopted, which can automatically ignite, control furnace temperature and pressure, control oil consumption, automatically adjust electric damper, combustion angle and smoke gate	
5	Computer control system	It adopts TFT color LCD touch screen and special computer control (PLC) for cremation machine, which can achieve synchronous dynamic display of color and video animation and has fault diagnosis display and perfect protection function. It is equipped with three operation systems without interference switching: manual, semi-automatic and computer full-automatic. The system is safe, stable, reliable, convenient for maintenance, and equipped with automatic explosion-proof function.	Control system
6	Electrical components	Using high quality low-voltage electrical components, using pressure module and temperature module to automatically detect furnace pressure and temperature	

7	Electrical control cabinet	Adopt separate electrical control cabinet, equipped with overload, short circuit and other electrical protection functions and system comprehensive control functions	
8	System working voltage	380V \pm 5%(three phase five wire system)	
9	Electrical control working voltage	220VAC, 24VDC	
10	Wind path	It is made of new high temperature and high manganese stainless steel with high corrosion resistance, stability and compressive strength.	Air supply system
11	Blower	Pulse blast system is adopted, 7.5kW high-pressure fan is used for blower, with air volume of 1050 ~ 1200m ³ / h and air pressure of 10000 ~ 12500pa.	
12	Combustion supporting air duct	The end small air duct contacting high temperature is made of high temperature resistant material Φ 20 * 2.5 seamless pipe. Others are made of Φ 159 steel pipes, which are resistant to high temperature and corrosion.	
13	Ejector fan	Venturi injection system is adopted, with 7.5kW high pressure and high air volume fan, air volume of 3650 ~ 4200m ³ / h, air pressure of 4000 ~ 6000pa	
14	Ejector bladder	It is made of 3mm high quality stainless steel plate with long	

		high temperature resistance and long service life.	
15	Ejection chimney	3 mm thick stainless steel plate rolling is adopted, and the first section buried underground is made of 3 mm thick stainless steel plate rolling. The structure is spray type, high temperature and corrosion resistant, and the chimney height is 8-12m.	Smoke exhaust system
16	Flue structure system	The flue adopts refractory brick, heat preservation brick, aluminum silicate fiber felt board, waterproof reinforced concrete protective layer and waterproof performance to ensure long-term non leakage.	
17	Pressure control system	Use the controller to control the ram lifting, automatically adjust the furnace pressure and control it within the range of $-2 \sim -50\text{pA}$	
18	High definition camera	High definition camera is used to capture the flue gas emission for easy operation	TV monitoring system
19	Color display	In order to ensure that the combustion emission reaches the best state and is easy to adjust and operate, the equipment adopts the color display to dynamically display the outdoor flue gas emission	

20	Fuel tank	Angang Steel profiles and plates are used, and the capacity meets the fire protection requirements	Oil supply system
21	Tubing	The pipeline from the oil tank to the furnace shall be wrapped with sealing tape, without oil leakage and with good sealing effect	
22	National standard Micro flowmeter	Metering oil consumption and oil pipeline control oil distribution	
23	Control valve	Protection oil circuit control system	

