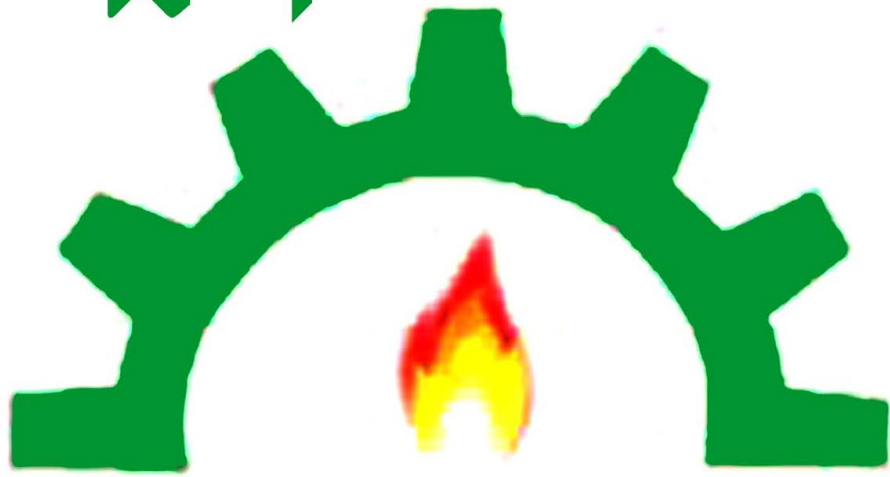


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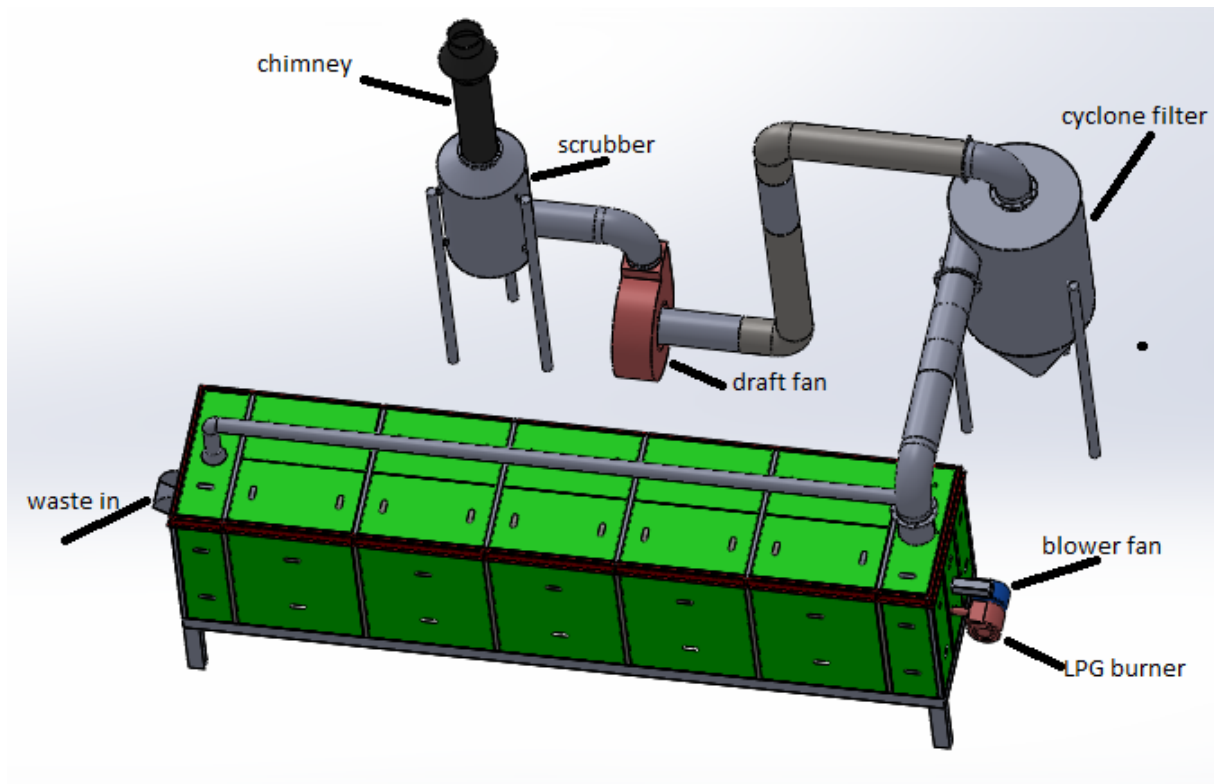


TALYA

MÜHENDİSLİK

ROTARY WASTE INCINERATOR

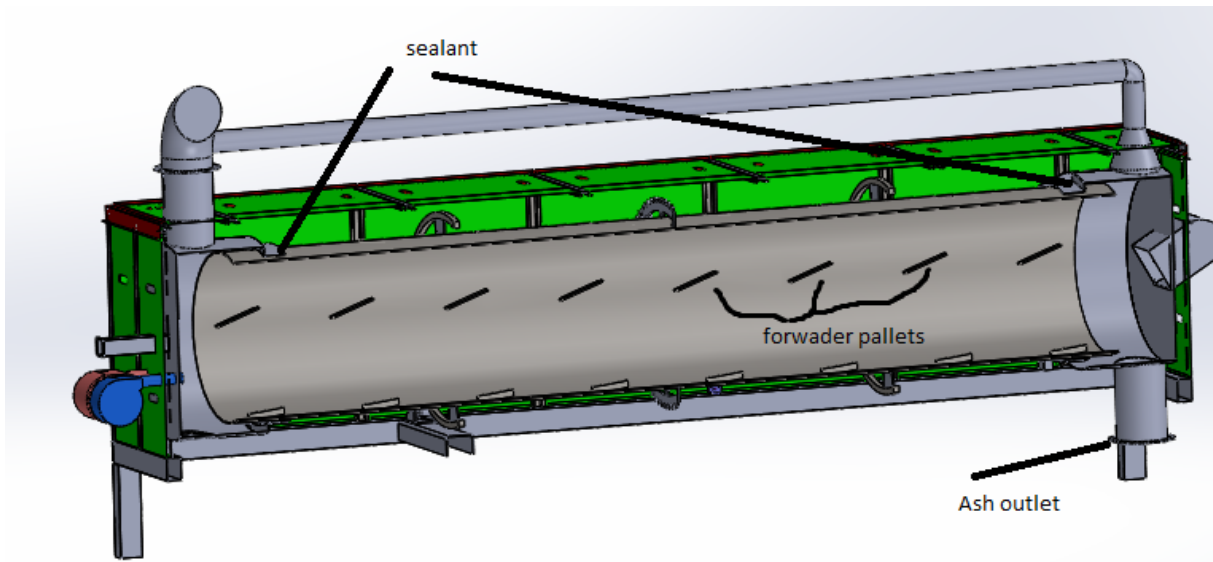
WASTE INCINERATOR



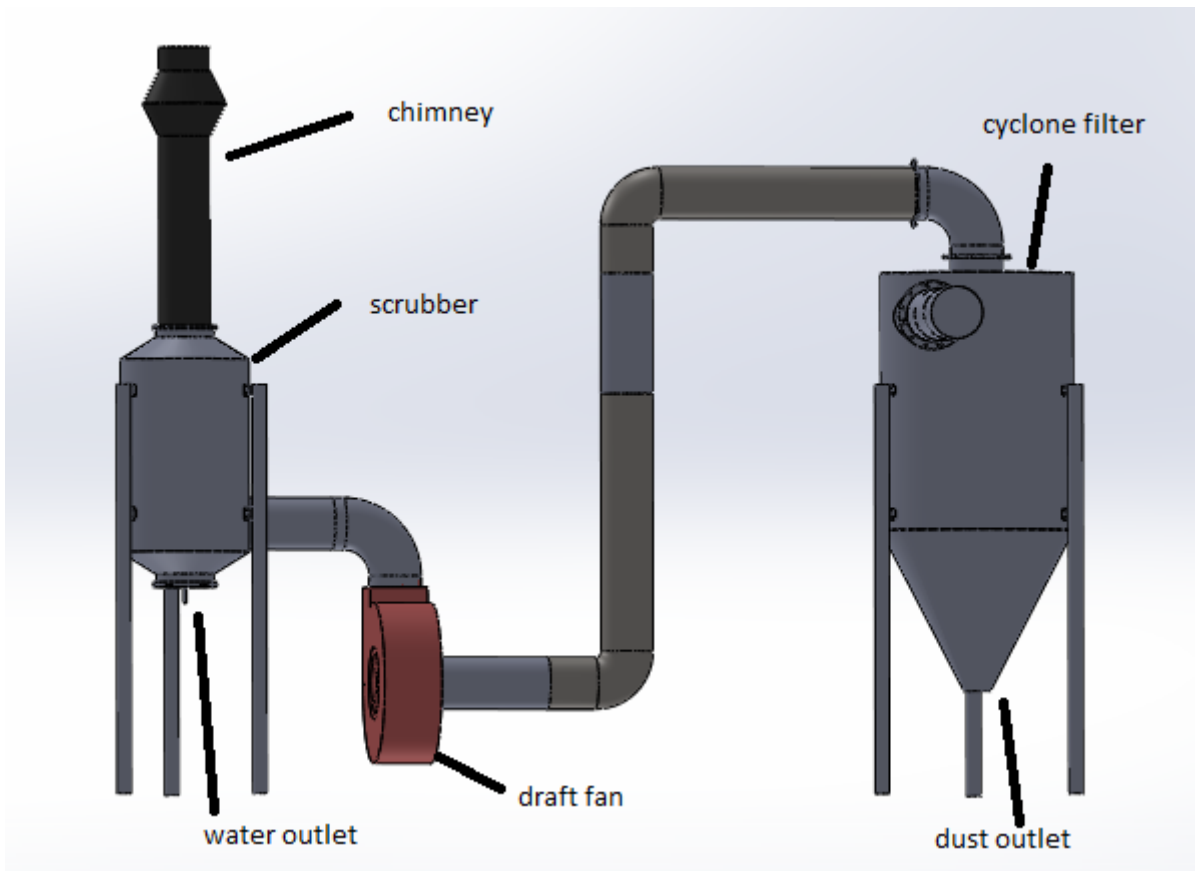
HOW IT WORKS

(General Information)

- 1-After all safety precautions taken, LPG burner is started.
- 2-After chimney temperature is around 150 °C waste material feeding may be started through "waste in".
- 3-Feeding waste material must be in a steady rate.
- 4-After some time ash will come out through ash outlet.



5- As the burning chamber turns around forwader pallets push the material to the left and turns the material upside down to increase the drying rate and burning efficiency.



6-Flue gas coming out incinerator enters to cyclone filter where particulate matter settles down.

7-After cyclone filter flue gas enters to wet scrubber where the flue gas is washed with water then meets with atmosphere through the chimney.

TECHNICAL INFORMATION:

Dimensions (widthxheightxlenght) : 1.4mx2.35mx7m

Weight (kg) : 6000

Consumption (kw) : 5,5

Capacity app.(kg) : 400

Minimum area to be installed (m²) : 56 (8x7)

IMPORTANT NOTE:

- **Heat evolved from the system may be used to heat water where hot water is needed.**
- **In near future our company will manufacture a waste incinerator coupled with an electric generator. Which means heat evolved by the incinerator will be converted to electricity by Organic Rankine Cycle system.**

TALYA ROTARY WASTE INCINERATOR OVERVIEW



Sertifika

CERTIFICATE

TALYA MÜHENDİSLİK İNŞAAT TİCARET SANAYİ LİMİTED ŞİRKETİ

MANDIRLAR MAH. TEKELİOĞLU CAD. 125. SOK. NO:10/B AKSU/ANTALYA/TÜRKİYE

ISO 9001:2015

Scope / Kapsam

KATİVE SIVI YAKITLI KAZAN, SERA ISITMA SİSTEMİ AKSESUAR VE PARÇALARI,
PİROLİZ MAKİNASI, MOBİL OLUK ÇEKME MAKİNASI, ATIK VE BİTKİ KURUTMA
MAKİNASI İMALATI VE SATIŞI

SOLID AND LIQUID FUEL BOILER, GREENHOUSE HEATING SYSTEM ACCESSORIES AND
PARTS, PYROLYSIS MACHINE, MOBILE GROOVING MACHINE, WASTE AND PLANT DRYING
MACHINE MANUFACTURING AND SALES

This is to certify that the above mentioned Company meets the requirement of Quality Management System

Bu sertifika ile yukarıda adı geçen kuruluşun Kalite Yönetim Sistemi gerekliliklerini karşıladığı tesdik olunur.

Certification Number / Belge NO	:	MTS-11610
Date of Initial Reg. / İlk Kayıt Tarihi	:	1.09.2018
Date of Certificate/Kasım Tarihi	:	1.09.2018
Date of Expiry / Geçerlilik tarihi	:	31.08.2021
Date of Re-certification/Yeniden Belgelendirme Tarihi	:	31.08.2021

Belgelendirme Müdürü/Certification Manager

CE



SERTİFİKA

Belge No.	: 2422-UD-BD4024/01
Başvuran /	: TALYA MÜHENDİSLİK İNŞAAT TİC. SAN. LTD. ŞTİ.
Kullanılan Yer	: Mandirler Mah. Allıncılık Cad. No:66/1 Aksu ANTALYA TÜRKİYE
Marka	: TALYA
Tipi/Model Gösterimi	: TLY-2019
Ürün Tanımı	: WASTE BURNER
Uygunluk Değerlendirme	
Rapor No/Tarih	: BD4024-01 / 19.06.2019
Ürün Açıklaması	: Endüstriyel Amaçlı cebri brülörlü gaz yakan yakma kabini

Teknik Veriler

Model	TLY-2019		
Ortalama Nominal ısı gücü ΣQ_n , KW	60-225	Ortalama Harcama (V), m^3/h	8,5-23,0
Brülörler (marka/model)	URET / URG 2A	Havalandırma, m^3/h	642
Basınç (mbar)	20 / 300		

Bu Doğalgaz Yakma Sistemleri Uygunluk Belgesi ile başvuran ürünü, burada belirtilen 2422-UD-BD4024/01 nolu belge ile kullanılan yer dışında başka bir adreste kullanamaz.

Integra96, yukarıda bahsi geçen firmanın ürüne ilişkin sunduğu dokümantasyonu TS 7363 (Madde 11) ve burada atf yapılan referans yönetmelik ve / veya standartlara göre incelemiştir. Yönetmeliğe ve standartlara göre ürünün ve dokümantasyonun uygunluğu firma sorumluluğundadır. Ürünün üzerinde muayene/denetim sonrası yapılan değişiklikler ürün uygunluğunun sona ermesine sebebiyet vermektedir. Bu anıy firmanın isteği üzerine verilmiştir.



SYSTEM CONSISTED OF A GAS BURNER, ROTATING MAIN BURNING CHAMBER, WASTE INLET, CYCLONE FILTER, DRAFT FAN, SECONDARY BURNER AND CHIMNEY.

SYSTEM WORKS AS FOLLOWS;

AT THE BEGINING BURNER LOCATED ON THE LEFT HAND SIDE IS LIT. THEN WASTE IS PUSHED INTO BURNING CHAMBER THROUGH "WASTE IN" PIPE. ONCE THE WASTE TO BE BURNED INSIDE THE BURNING CHAMBER IT PROCEEDS TO THE LEFT BECAUSE OF TURNING AND PUSHING EFFECT OF ROTARY CHAMBER. MAIN BURNING CHAMBER IS ROTATED BY SPEED CONTROLLED ELECTRIC MOTOR. AS IT IS PROCEEDING TO LEFT IT GETS DRIER. WHEN THE DRIED MATERIAL MEETS THE FLAME OF THE BURNER IT STARTS TO BURN. THEN AFTER ASHES FALLS DOWN THROUGH "ASH OUT" PIPE. AFTER A CERTAIN TEMPERATURE IS REACHED BURNER STOPS AUTOMATICALLY. AS THE "DRAFT FAN" SUCKS THE SMOKE FROM THE BURNING CHAMBER SMOKE MOVES FROM LEFT TO RIGHT , AS MOVING IN COUNTER DIRECTION WITH WASTE TO BE BURNED. AS HOT GASES CONTACT WITH THE WASTE , WASTES GET DRIER AND FINALLY BURNS EASILY. IN SUCH A MANNER ENERGY IS SAVED AND FLUE GASES BECOME COOLER.

FLUE GASES LEAVE BURNING CHAMBER FROM TOP OF THE RIGHT HAND END. AS THE FLUE GASES PASS THROUGH CYCLONE FILTER, PARTICULATE MATTER IN FLUE GAS SEDIMENTS AT THE BOTTOM OF THE CYCLONE FILTER. AFTER CYCLONE FILTER, FLUE GASES PASS THROUGH DRAFT FAN AND ENTERS TO SECONDARY BURNING CHAMBER. IN SECONDARY BURNING CHAMBER UNBURNED HYDROCARBONS AND CARBONMOXIDE ARE BURNED BY MEANS OF SMALL BURNER. THEN FLUE GASES LEFT TO THE ATMOSPHERE AS BEING IN THE RANGE OF LEGAL LIMITS.

TECHNICAL PARAMETERS

ELECTRICAL ENERGY CONSUMPTION : 10 KW MAX.

GAS CONSUMTION (LPG) : 2KG

INCINERATION RATE : 250-500KG/HOUR

MAIN BURNING CHAMBER : 8MM STEEL HALF WAY COVERED WITH SPECIAL CEMENT.

OUTSIDE IS INSULATED WITH STONE WOOL.

DRAFT FAN : SPEED CONTROLLED

CONTROL PANEL : CONTROLLED BY EASY TO USE PLC

NEM ORANI	%80	%70	%60	%50	%40	%30	%20
LPG TÜKETİMİ(KG/SAAT)	22	19	16,5	14	11	8,3	5,5

YUKARIDAKİ DEĞERLER BELİRTİLEN NEM ORANLARINDAKİ SUYU TAMAMEN BUHARLAŞTIRMAK İÇİN GEREKEN YAKIT MİKTARLARIDIR. %40 VE DAHA DÜŞÜK NEMLİ OLANLAR FIRIN YAKILIP BELİRLİ SICAKLIĞA ULAŞTIKTAN SONRA EKSTRA LPG KULLANMADAN YANABİLECEKTİR. BUNA GÖRE ELİMİZE GELEN ÇÖP %70 NEM ORANINA SAHİPSE BUNU %40 A DÜŞÜRMEKİZ GEREKİR YANİ (19-11=8) . %70 NEMLİ ÇÖP İÇİN SAATTE 8 KG LPG YE İHTİYAÇ VAR.

%50 NEMLİ OLURSA (14-11=3) SAATTE 3 KG LPG YE İHTİYAÇ VAR.

MOISTURE CONTENT	%80	%70	%60	%50	%40	%30	%20
LPG CONSUMPTION (KG/H)	22	19	16,5	14	11	8,3	5,5

Material	Mass received per day. kg	% ağırlıkça Orijinal temel	Humidity % by mass	Dry matter % by mass	Ash %	Mass of combustibles per day (kg)	Lower calorific value calories/gr
Polyurethan	2312	0,56	30,00	1618	0	1618	6200
Medicine	210	0,05	0		0		0
Polyethylene (PE)	23854	5,81	32,38	16130			8900
Diapers+ woman pad	2732	0,67	34,11	902	0	902	7420
Clothes	11245	2,74	21,9	8782	0	8782	5100
PET	2188	0,53	29,44	1544	0	1544	5300
Polypropylene (PP)	3252	0,80	0	4360	0	4360	9700
Rubber	786	0,19	0	1054			
Detergent containers	1879	0,46	0	2519	0.9		10700
Metal	1093	0,27	0	1465	0	0	0
Glass	3086	0,75	0	4136	0	0	0
Shoes	1135	0,28		1522	0	1522	4351
Cable	420	0,11	0	564	0	0	0
Paper	2329	0,57	46,00	1986	0	1986	4297
Small mixed plastics	143388	35,00	32.38	129978	20	103982	7720
Rest	205602	50,11	43,00	157103	30	109972	7720
	405511						
	Outage 4769					234668	

NOTE: After sorting recyleable materials the rest is burned to generate electricity. Burning 1tonne/hour= 1MW electricity/

01,July,2019

CONTRACT

- 1- This contract has been signed between TALYA MÜHENDİSLİK LTD. and Environmental Engineer Adnan MENĞİ.
- 2- Subject of this contract is to manufacture of package type biological waste water treatment systems according to enforcing regulations.
- 3- Engineer will provide the project drawings to and material specifications to TALYA MÜHENDİSLİK LTD. in accordance with the customers demand.
- 4- Engineer will specify the pumps, diffusers, blower etc. which will be used in the project.
- 5- TALYA MÜHENDİSLİK LTD. will manufacture the waste water treatment system as indicated by the engineer.
- 6- Engineer will control the waste water treatment system while it is being manufactured.
- 7- At the end of manufacturing process engineer will check the sytem , if everything is done according to Project or not. If everything is done according to Project then sytem will be delivered to customer.

TALYA MÜHENDİSLİK LTD .ŞTİ


**TALYA MÜHENDİSLİK
İNŞAAT TİCARET SAN. LTD. ŞTİ.**
Mandırlar Mahallesi Altınoluk Cad. No:66/1
Tel.: 0242 427 48 08 Aksu/Antalya/Türkiye
Kurumlar V.D.: 817 019 9295
Mersis: 0817 0199 2950 0012

Adnan MENĞİ

Environmental. Eng.



















ROKAKONG GREEN TRADING CO.,Ltd

**EXCLUSIVE DISTRIBUTOR
ROTARY WASTE INCINERATOR
& WASTE WATER TREATMENT**

**#40B, Street 222, Sangkat Boeung Reang,
Khan Daun Penh, Phnom Penh, CAMBODIA.
Phone: +(855) 011 688 075 / 092 333 076
Email: rocakong.green@gmail.com**



អាងប្រើប្រាស់



WASTE WATER TREATMENT