



PRODUCT PRESENTATION
Joss Paper Burners with Air Pollution Control Equipment
2014

STAR GLORY ENVIRONMENTAL TECHNOLOGIES LTD.

A. COMPANY INTRODUCTION

An active supplier of environmental protection equipment

- ▶ a. Air Pollution Control Equipment for industrial application
 - ▶ b. Fibreglass equipment for Water Treatment Works
 - ▶ c. Fire Damper and Fire Smoke Dampers
 - ▶ d. Air Control Damper and Shut off damper
 - ▶ e. Stainless Steel equipment for Water Treatment Works
 - ▶ f. Air to Air Heat Recovery Equipment for HVAC System
 - ▶ g. Electrical Actuators for Valves and Dampers
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- ▶ **For details, please visit www.starglory.net**



B. PRODUCT INTRODUCTION

- ▶ 1. Air Pollution Control Equipment for industrial application
- ▶ 2. Joss Paper burner with Water Scrubber System
- ▶ 3. Joss Paper Burner made of mild steel with 300°C high temperature coating. Lining made of 1000°C high temperature insulation
- ▶ 4. Water Scrubber for smoke filtration, made of Stainless Steel 304 or 316
- ▶ 5. Waste Water and Sludge will be disposed according to current water discharge regulation
- ▶ 6. Minimal white coloured steam will be discharged to the atmosphere
- ▶ 7. Joss Paper Burner and filtration system can be tailor-made to any sizes



C. JOB REFERENCES



Yuen Yuen Tao Institute



Yuen Yuen Tao Institute

C. JOB REFERENCES



Tuen Mun Hospital



Kwong Wah Hospital

D. WORKING PRINCIPLES

- ▶ 1. Recirculating High Pressure Pump creates atomized water droplets and steam for adhering smoke particulates
- ▶ 2. Special stainless steel non-clogging filter cells filter off almost all the particulates.
- ▶ 2. High Pressure Blower creates turbulence to help mixing the smoke and water droplets.
- ▶ 3. Sludge will be settled at the bottom of the water tank



E. PRODUCT CHARACTERISTICS

- ▶ 1. High Efficiency – Up to 96%
- ▶ 2. Simple but patented design
- ▶ 3. Compact Construction
- ▶ 4. Flexible Installation and minimum foot print
- ▶ 5. Only water is used, no consumable components e.g. chemicals or electrical filtration parts etc.
- ▶ 6. Fully automatic operation from System On/Off to water changing procedures
- ▶ 7. Maintenance free operation. Very reliable and durable
- ▶ 8. Can operate at a very high temperature (over 500°C)



F. PATENTED DESIGN

《專利條例》(第 514 章)

CERTIFICATE OF GRANT OF SHORT-TERM PATENT

Patents Ordinance (Chapter 514)

茲證明下述短期專利在今日批予:

I hereby certify that a short-term patent with the following particulars has been granted today:

專利所有人姓名或名稱及地址 **Name and Address of Proprietor:**

CHAN, Kin Shing

HONG KONG

專利編號 **Patent No.:** HK1164041

申請編號 **Application No.:** 12104083.6

發明名稱 **Title of Invention:**

煙霧淨化系統

SMOKE PURIFICATION SYSTEM

短期專利有效期 (在符合續期的規定下) **Term of Short-term Patent (subject to renewal):**

由 25.04.2012 起計 8 年

Eight years commencing on 25.04.2012



G. FULLY TESTED

D. MEASUREMENT RESULTS

Table 1 : Measurement results for the particles larger than 2.5µm at comparing the measuring results of the sampling location taken at Inlet and Exhaust

Location: Yuen Yuen Tao Institute

Sampling Identification	Sampling Point Number	Sampling Location	Sampling Time (min)	Flow Rate of the Sampling Air (l/min)	Weight of Total Suspended Particulates on Filter (g)	Weight of Total Suspended Particulates in the air (g/m3)	Percentage Reduction (%)
YY-01	1	Inlet	8	15	0.0044	0.036	91.7%
YY-02	2	Exhaust	8	15	0.0004	0.003	

Table 2 : Measurement results for the particles larger than 2.5µm at comparing the measuring results of the sampling location taken at Inlet and Exhaust

Location: Kwong Wah Hospital

Sampling Identification	Sampling Point Number	Sampling Location	Sampling Time (min)	Flow Rate of the Sampling Air (l/min)	Weight of Total Suspended Particulates on Filter (g)	Weight of Total Suspended Particulates in the air (g/m3)	Percentage Reduction (%)
KWH-01	1	Inlet	8	15	0.0035	0.029	>96.6%
KWH-02	2	Exhaust	8	15	<0.0001	<0.001	



H. BENEFIT TO THE PUBLIC

- ▶ 1. Consume lower energy for only pump and blower
- ▶ 2. Mitigate over 96% dust particulates
- ▶ 3. Diminish most of the odour
- ▶ 4. Consistently high efficiency



I. BENEFITS TO THE USERS

- ▶ 1. Minimum manpower is required due to full automatic operation
- ▶ 2. Lower operating energy cost by using high efficiency pumps and blower only, without electrical filtration components
- ▶ 3. Fully tailor-made in size, configuration and capacity
- ▶ 4. No thread of electric shock from high voltage filtration components



- ▶ Thank you !
- ▶ Questions ?

