



# GY型隔油提升装置

MODEL GY OIL SEPARATING LIFTING DEVICE



**上海连成（集团）有限公司**  
SHANGHAI LIANCHENG (GROUP)CO.,LTD.

地址：上海市江桥镇曹安公路3616-3618号  
邮编：201812  
总机：(021) 59138888  
传真：(021) 59136782  
800免费咨询电话：800-820-5009  
400免费咨询电话：400-188-5009

Address:3616-3618 Cao'an Road,Jiangqiao Shanghai  
P.C.: 201812  
Switchboard: (021) 5913888  
Fax: (021) 59136782  
800 Free consultation Tel: 800-820-5009  
400 Free consultation Tel: 400-188-5009



连成集团微信公众号

# 目 录

## CONTENTS

<b>设备原理</b> Equipment principle	1
<b>适用范围</b> Scope of application	2
<b>设备说明</b> Equipment description	2
<b>设备特点</b> Equipment characteristics	3
<b>型号意义</b> Model meaning	4
<b>常规选型参数及尺寸</b> General selection parameters and dimensions	5



## 设备原理 Equipment principle

含油废水在重力的作用下，借助油水比重差，采用自然上浮法分离去除废水中的可浮油与部分细分散油。其内部分为三个隔档，提高了油水分离功能，应用导流分离原理以及紊流变层流的辩证关系，使废水流经油水分离器的过程中，流速降低，通过增加过水断面从而降低流速（ $\leq 0.005\text{m/s}$ ），增加废水的水力停留时间，并使整个过水断面能够匀速流过。出水区的构造也充分考虑了水流均匀性问题以及防臭防虹吸等措施。实践证明，该产品可将粒径60um以上的可浮油去除90%以上，外排废水中动植物的含量低于《污水综合排放标准》（GB8978-1996）中的三级标准（100mg/L）。

Oily wastewater under the action of gravity, with difference of the proportion of oil and water, the natural float separation removal in wastewater of oil slicks and part of the breakdown of the bulk oil. The three baffle, improve the function of oil-water separation, diversion separation principle and variable laminar turbulent dialectical relationship between the application and the wastewater flows through the oily water separator, the process, reduce the flow rate and by increased over water section so as to reduce the flow rate (less than or equal to 0.005m/s), increase waste water hydraulic retention time, and make the whole cross section to uniform flow. Make water area also fully consider the flow uniformity and deodorization and anti siphon measures. Practice has proved that the product can grain diameter 60um above can remove more than 90% of the oil slick, the wastewater discharged from the dynamic content of vegetable oil is lower than that of the third class standard of "integrated wastewater discharge standard" (GB8978-1996) (100mg / L).

## 适用范围 Scope of application

隔油器广泛应用于大型综合商场、办公写字楼、学校、军队、各类宾馆、饭店、高级招待所及营业性餐厅所属厨房排水管隔油清污之用，是厨房必备的隔油设备，以及车库排水管隔油的理想设备。除此之外工业涂装废水等含油废水有也运用。

Oil separator is widely used in the large-scale comprehensive shopping malls, office buildings, schools, military units, all types of hotels, restaurants, senior entertainment and business restaurant, the kitchen drain grease pollution, is an essential kitchen grease equipment, as well as garage drainage tube blocking the ideal equipment for oil. In addition, industrial coating wastewater and other oily waste water are also used.

## 设备说明 Equipment description

本设备主要由固液分离箱、油水分离箱，以及污水提升箱三部分组合而成，餐饮污水首先进入固液分离箱中去除大颗粒固体垃圾，较小的固体垃圾慢慢沉淀箱体底部，经箱体内粉碎泵处理后，经下端锥形斗收集后排出。

This equipment mainly by the solid-liquid separation tank and an oil-water separation tank and sewage lifting box three parts combination, restaurant wastewater first enters the solid-liquid separation tank to remove large particles of solid waste, solid waste small soft slowly precipitation at the bottom of the box body, the box body smash pump handle, the lower conical bucket collection after discharge.

然后含油废水进入油水分离箱，利用重力原理、浅池沉淀和紊流理论，在气浮、斜板和重力作用下，油和水快速分离，而使得油脂分离到水表面进行收集，通过液压排油方式打开排油阀门排出油脂。当天气较寒冷油脂凝固时，自动启动加温装置，使得油脂始终处于流动状态，以使随时排油随时可排，避免油脂硬化排不出。

And oily wastewater into the oil-water separation tank, using the principle of gravity, Asaike precipitation and turbulent flow theory, in the flotation, inclined plate and under the action of gravity, rapid separation of oil and water, and make the oil separation to the surface of water were collected, through the hydraulic oil drain open drain valve discharge of oil and fat. When the weather is cold coagulation fat, automatically starting the heating device, oil has always in a state of flow, so that can drain oil at any time at any time in a row, avoid fat hardening row.

而油水分离后的废水则通过斜板折流出设备，在折流地程中，水箱中的小型颗粒会被进一步去除，沉积于油水分离箱底部锥形斗底部，可打开阀门自动排出。

And oil-water separation, waste water through the inclined plate fold out of the device, the flow process, small sized particles in aqueous phase will be further removal and deposition in the oil-water separation box at the bottom of the cone bucket bottom, automatically open the valve discharge.

污水经过层层处理后流入污水提升箱，提升箱配两台污水提升泵，一用一备，高峰时可同时开启。当箱体内液位计检测到水位到达排出水位高度时，自动启动污水提升泵，将废水提升到地面市政污水管网或集水坑内进一步深化处理。

Sewage after layers of processing flows into the sewage lift box, lifting box with two sewage lifting pump, with a preparation, the peak can be open at the same time. When the box body level of control to the water level reaches the discharge water level automatically start the sewage lifting pump, wastewater lifting to ground municipal sewer or sump to further deepen the process.

## 设备特点 Equipment characteristics

1、独特的锥斗形设计，可使细小杂物沉积于锥斗底部，方便排出底部淤泥，淤泥从固液分离箱到油水分离箱依次减少，只须定期打开阀门排出污泥即可。

1. Unique cone bucket shaped design, the small debris deposition in a cone bucket bottom, convenient discharge bottom silt, silt from the solid-liquid separating box to oil-water separation tank in order to reduce only regularly open the valve discharge sludge can be.

2、高效性：本设备采用合理的流体设计，在气浮、斜板折流及重力原理作用下，使油水分离时间控制在2-10分钟即达到理想的油水分离效果，出水标准可达到国家污水综合排放标准《GB8978-1996》的三级要求，符合环保部门排放许可要求，甚至可接近二级标准，且二级沉淀的设计可以保证出水的SS（固体悬浮物）小于100mg/L。

2. Efficient: the equipment with reasonable design of fluid, in flotation, inclined plate baffle and the principle of gravity effect, the oil-water separation time control in 2-10 minutes to reach ideal oil-water separation effect, the standard of effluent can meet the national sewage comprehensive discharge standard of GB8978-1996 "three level requirements, conform to the environmental protection department discharge permit requirements, or even close to the secondary standard, and secondary precipitation design can ensure the effluent SS (suspended solids) of less than 100 mg / L.

3、防异味散发：由于餐饮废水中恶臭物质的散发，通常隔油设施操作区域空气质量较差。而本设备采用全封闭设计，仅留有一个透气管道与排风系统管路相连接，可有效将异味密封在池体内，通过透气管排出，保证隔油池间内优良的操作环境。

3. Anti odor distribution: because the stench substances in restaurant wastewater, usually oil separation facilities operation of regional air quality is poor. And the equipment with fully closed, leaving only a ventilation pipe and exhaust air pipeline system is connected, can effectively will smell sealing in the tank body, through the air exhaust pipe to ensure isolation between oil pools excellent operating environment.

4、自动化程度高：

4. High degree of automation:

1)、本设备可配置微气孔发生器（如有要求）、加温装置、排污提升泵均由电控箱统一控制启停，使用过程几乎不需要人工操作，每天仅需排油排渣即可，大大节省了人工成本。固液分离箱到油水分离箱依次减少，只须定期打开阀门排出污泥即可。

1), the device can be configuration micro gas generator (if required), heating, sewage lifting pump are unified by the electric control box control start stop, use almost do not need manual operation, every day only discharges oil and slag can be, greatly saves the labor cost. Solid liquid separation tank to the oil water separation tank in order to reduce the need to regularly open the valve to discharge sludge.

2)、污水提升泵和液位探测头均为2套，当其中一只液位探头损坏时，不影响设备自动提升排污；当水泵损坏时，电控箱发出故障提醒显示。

2), sewage lifting pump and liquid level detecting head are two sets, when the a level probe damage, does not affect the equipment automatic lifting sewage; when the water pump is damaged, electric control box, a fault display to remind.

5、节能：本设备配置用电设施均按条件自动启动，微气泡发生器(如要求配置)可设定在营业高峰时启动，可分时分段设定。当寒冷季节油脂凝固时，才自动启动加温装置；污水提升泵在达到一定液位高度时方才启动，可大大节省不必要的电费。

5. Energy saving: the configuration of the equipment for electrical facilities are according to the conditions of automatic start, micro bubble generator for configuration can be set up the business peak, can be divided into sub set. When the cold season to solidify the grease to automatically start the heating device; sewage lifting pump in reaching a certain liquid level height had just started, saves a great deal of unnecessary electricity bill.



6、使用寿命长：本设备全不锈钢制作，主体采用优质SUS304不锈钢制作，永不生锈，抗腐蚀能力强，经久耐用。

7、适用范围广：用于一切油种，进油浓度不受限制，特别适合大型商业广场、车站、商务楼、酒店等人流密集场所的餐饮废水处理，也可工业及油品生产、食品加工行业。

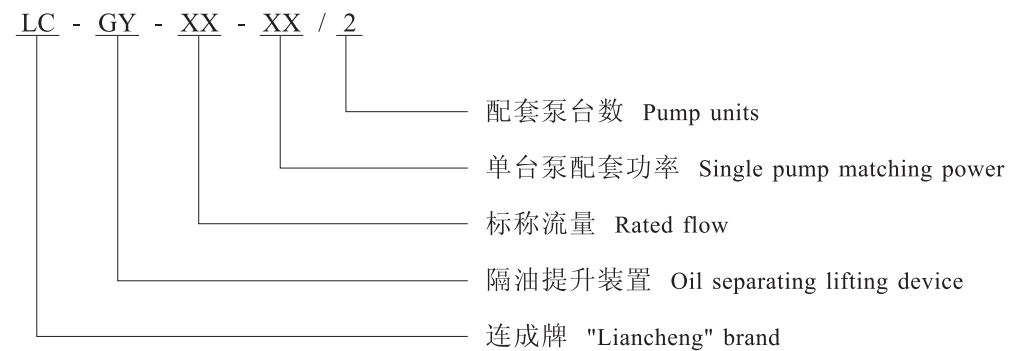
8、安装维护简单方便：仅需要连接设备进出水口、透气、排污管道即可使用。安装完成后，每天仅需打开阀门排油排渣，更换油桶和残渣桶即可。

6. The use of long life: This equipment made of stainless steel, the main use of high-quality SUS304 stainless steel production, never rust, strong corrosion resistance, durable.

7. Scope of application: used for all oil and oil concentration is not restricted, especially for large commercial plaza, stations, commercial buildings, hotels and other crowded places of restaurant wastewater treatment, industrial and oil production, food processing industry.

8. Simple and convenient installation and maintenance, only need to connect the inlet and outlet of equipment and ventilation, sewage pipes can be used. After the installation is complete, every day only need to open the valve oil drums and barrels of slag, residue replacement.

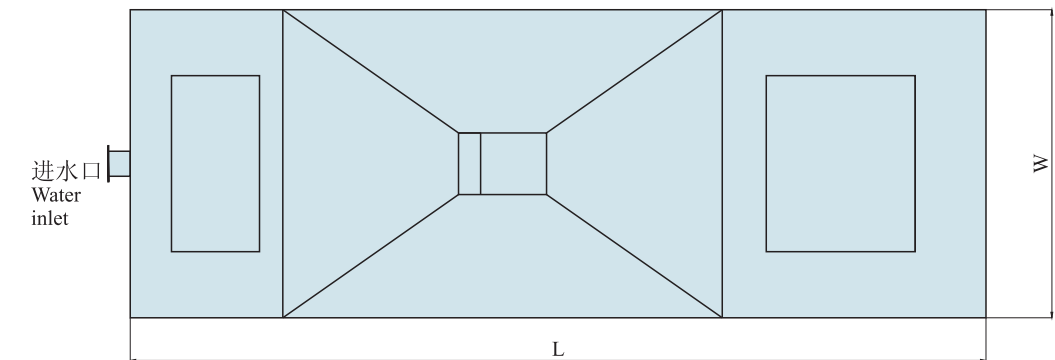
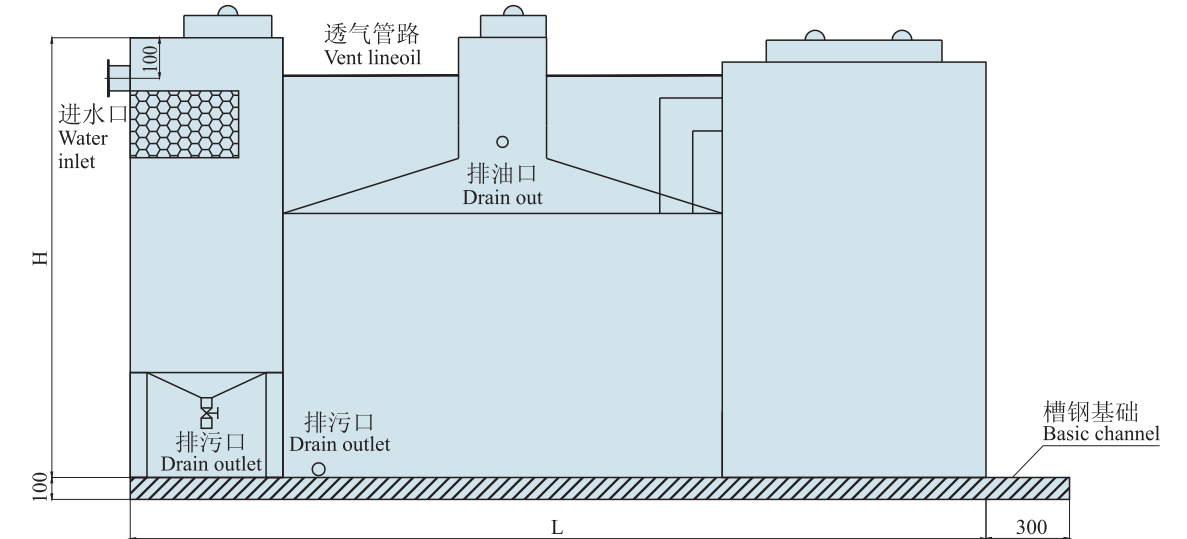
### 型号意义 Model meaning



通常污水提升池里面配两台泵，一用一备，交替运行，耦合安装，泵的具体参数和功率根据需要的流量、扬程等选择配置，同时注意选择时介质的比重和粘度等性质，如果有特殊情况请咨询总部市场中心技术支持。

Usually to upgrade the sewage pool inside with two pumps, with a preparation, alternating operation, coupling installation, pump and the specific parameters of power according to the required flow, head and other options to configure, and attention to the selection medium gravity and viscosity properties, if there are special circumstances please consult headquarters market center technology support.

### 常规选型参数及尺寸 General selection parameters and dimensions



型号 Model	流量 Flow (T/h)	长 Long L (mm)	宽 Wide W (mm)	高 High H (mm)
LC-GY-10-XX/2	10	2700	1000	1700
LC-GY-15-XX/2	15	3000	1200	1900
LC-GY-20-XX/2	20	3300	1200	2000
LC-GY-30-XX/2	30	3700	1500	2100
LC-GY-40-XX/2	40	4400	1500	2100
LC-GY-50-XX/2	50	5200	1800	2200