

# 基础油`润滑油`废机油系统

产品名称	基础油`润滑油`废机油系统
公司名称	广州宝维纳环保科技有限公司
价格	.00/个
规格参数	品牌:BWN 型号:BWN 产品用途:废油再生废油处理废油脱色
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## 产品详情

品牌	BWN	型号	BWN
产品用途	废油再生废油处理废油脱色	外形尺寸	80000（mm）
重量	80000（kg）		

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bwn废油再生系统

bwn regeneration of used lubricating oil system

### 1.第一:作业原理、特点1.operation principle & characteristics

短程蒸馏的分离原理是利用液体分子量差异从而造成受热后的平均自由程不同来实现的：液体混合物为达到分离的目的，首先进行加热，能量足够的分子逸出液面。轻分子的平均自由程大,重分子的平均自由程小，在离液面小于轻分子平均自由程而大于重分子平均自由程处设置一冷凝面，使得轻分子落在冷凝面上被冷凝，从而破坏了轻分子的动力平衡，使得轻分子继续不断逸出。而重分子因达不到冷凝面，很快趋于动态平衡.这样就将混合物分离了。

the short-range distillation separation is materialized by using liquid molecules weight difference to cause the free path length after heating them: liquid mixtures are often separated by heat first, and then molecules which are powerful enough would escape from the surface. the free path length of light molecules is big, while the heavy ones ' is small. set a condensing surface between the light ones ' length and the heavy ones ' , and then light molecules would be condensed after they stop at the condensing surface. it breaks the dynamic balancing of the light molecules, and they will escape continually. nevertheless, the heavy molecules tend to achieve dynamic balancing quickly because they

can ' t reach the surface. in this way, mixtures are separated.

与其它蒸馏方法相比，短程蒸馏的突出优点在于操作温度低和物料受热时间短，这两点对于高沸点和热敏性物料尤为重要，因此，短程蒸馏技术成为一种对高沸点、热敏性物料能有效无损分离的手段，而被广泛使用。

compared to other distillation techniques, the outstanding merits of short-range distillation technique are the low temperature and the short heating time which are extremely important to high boiling point and heat-sensitive materials. therefore, as an effective non-destructive means of separation, short-range distillation technique is widely used.

第一阶段薄膜蒸发器利用薄膜蒸发脱水、脱臭、脱轻组分。

first phase:

thin-film evaporator dehydrates, deodorizes, and removes light components by using thin-film evaporation.

第二阶段短程蒸馏分离器

second phase:

1 原料油如含有柴油、溶剂、或轻燃料油时，先使用短程蒸馏器于低温度工作条件下予以脱除

2 分离油渣回收基础油

1) use short-range distillatory to remove diesel oil, solvent or light fuel oil from raw oil in low-temperature working condition.

2) separate oil residue and recycle base oil

第二：适用对象

2. applicable targets

1 车用/船用废润滑油

2 废齿轮油

3 废液压油

4 废变压器绝缘油

5 废真空油

6 废金属切削油

1) automobile-used/marine waste lubricating oil

2) waste gear oil

3) waste hydraulic oil

4) waste transformer insulating oil

5) waste vacuum oil

6) waste metal-cutting oil

### 第三:代表性的工作参数

3. representative of operating parameters

1 薄膜蒸发器60~100度

2 分子蒸馏器设定：依据基础油性质设定（110~220度，等于常压蒸馏280~480度）

3 工作压力：< 0.1bpa

1) thin-film evaporator 60-100 degree

2) molecule evaporator setting: based on base oil property ( 110-220 degree, equals to 280-480 degree in atmospheric distillation)

3) operating pressure: < 0.1bpa

### 使用真空泵抽真空

vacuumize by vacuum pump

### 第四：水电能源

4. water & electrical energy

1) power consumption

average: 150kw-hr/lt

2) thermal energy consumption

40w kcal. hr/lt

3) water consumption (evaporation capacity)

5-10 kl. / 1000kg (evaporation loss of the cooling water from the cooling tower)

4) additive: no

5) the cost of producing every ton of refined oil figures out at about rmb 800.

## 1 电力消耗

平均：150kw-hr/lt

## 2 热能消耗

40w大卡hr/lt

## 3 耗水量(蒸发量)

5~10公升/1000kg(冷却水由冷却塔蒸发之损失)

## 4 添加剂：无

5 每生产一吨成品油大约折算合计约人民币800元

## 第五：回收率

### 5. coefficient of recovery

#### 1) bwn refined base oil coefficient of recovery

in accordance with the composition of waste oil, but the coefficient of recovery is basically more than 70% on average.

#### 2) waste water

100% removed, but waste water contains 1% oil slick which is needed to be disposed by waste water treatment equipment

#### 3) oil sludge

reflow in the system, until slots are cleaned.

### 1 成品基础油bwn回收率

依废机油组成份而定，但平均在70%以上

### 2 废水

100%去除，但废水中约1%浮油，需使用废水处理设备进行处理

### 3 油泥

于系统中回流，直到清槽为止

## 第六：空气污染排放物

### 6. air pollutant emission

符合固定污染源空气污染排放标准

comply with emission standards for stationary sources of air pollution

## 第七：工业废弃物处理

### 7. industrial waste disposal

#### 1) waste water

-the weight is in accordance with the rate of water content of the raw oil. it is 2-6% in general. waste water would be disposed by waste water treatment equipment

- oil within waste water will be recycled in oil water separator; recycled water will be reused.

#### 2) oil sludge

-unceasing circulation of recycling

-concentrated oil sludge will be sent to coal-fired plants after cleaning the slots. oil sludge will be incinerated after being mixed.

#### 1 废水

—重量依原料油含水率而定，一般在2~6%，含油废水以废水处理设备进行处理

—含在废水中的油份在油水分离机回收，回收水则回收再利用

#### 2 油泥

—不断循环再回收

—浓缩之油泥于清槽时送至然煤厂混合后焚化

## 第八bwn的优点

### 8. merits of bwn

1.low energy consumption (distillate oil heating temperature at the lowest 60-220 degrees)2.without any filter aids3.without any chemicals or additives4.comply with emission standards for stationary sources of air pollution5.very little industrial waste (concentrated oil sludge)6.relatively low noise (abut 80dba)7.high level security (high vacuum environment of negative pressure, no explosion)

1 能源消耗少（加热温度是目前蒸馏油品最低60~220度）

- 2 无需任何滤材于助剂
- 3 无需任何化学品或添加剂
- 4 符合固定污染源空气污染排放标准
- 5 非常少的工业废弃物(浓缩油泥)
- 6 相对低的噪音(约80dba)
- 7 安全性高(因使用高真空之负压环境，无爆炸之忧)

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欢迎亲临现场考察并带油样中小试

welcome to visit the scene to investigate and take oil samples for medium and small test